# **Quarterly Business Review (QBR)**

November 5, 2013 9:30am – 3:20 pm Rates Hearing Room

To participate by phone that does not charge long distance, please dial: 1-203-692-7388.

If you are calling long distance, please dial: 1-866-801-1879.

When prompted, enter access code 4577646.

Time	Min	Agenda Topic	Slide	Presenter
9:30	5	Review Agenda & Follow-up from Informal Survey	2	Mary Hawken
9:35	30	CFO Spotlight	~	Nancy Mitman
Financia	al Highligh	nts		
10:05	40	<ul><li>Review of 4th Quarter Financial Results</li><li>Review of FY 2014 SOY Budget</li></ul>	3-19	Mary Hawken, Cheryl Hargin, Danny Chen, Kyna Alders, Mai Truong
10:45	10	Slice Reporting	20-26	Craig Larson, Timothy Roberts, Janice Johnson
10:55	15	<ul> <li>Review of 4th Quarter Capital Financial Results</li> <li>Review of FY 2014 SOY Budget</li> </ul>	27-29	Kathy Rehmer, Kyna Alders
11:10	20	Capital Project Status Report—updated 11/4	30-34	Dennis Naef
11:30	30	Capital Investment Prioritization	34-46	Mike DeWolf
12:00	60	Lunch	~	~
Other A	gency Top	pics		
1:00	20	Grand Coulee Dam Third Powerplant Overhaul	47-77	Mike Alder
1:20	15	Access to Capital Status Update	78-81	Javier Fernandez, Jon Dull
1:35	10	Radio Spectrum Status Update	82-87	Brian McConnell, Shawna Lamothe
1:45	20	Follow-up on Functional Budgeting	88-92	Brian McConnell
2:05	30	Update on NOS & Celilo Projects	93-103	Brian Scott
Operation	onal Excel	llence		
2:35	10	Canadian Real Time Snowpack Monitoring Network Expansion	104-112	Erik Pytlak
2:45	15	Fall Protection Program	113-127	Darlene LaBrosse
3:00	15	Occupancy Sensors Project	128-144	Mira Vowles, Sheila Bennett
3:15	5	Questions, Comments, Future Meeting Topics	~	Mary Hawken
3:20	~	Adjourn	~	~

# Financial Highlights

#### Financial Overview for FY 2013 through September 30, 2013

#### **Agency**

- Audited FCRPS Net Revenues for FY 2013 are negative \$105 million. This is \$23 million greater than the rate case forecast.
- Adjusted Net Revenue for Power and Transmission is \$56 million.
  - The Rate Case forecast of Adjusted Net Revenue was \$27 million and the Start-of-Year forecast was \$51 million. The 3rd Quarter Review forecast was \$75 million.
- Cash Reserves ended at a level of \$1,272 million, an increase of \$250 million from last year. Reserves available for risk were \$641 million.
- BPA spent \$883 million on capital projects in FY 2013. This includes projects for Federal Hydro system replacements, transmission expansion and replacements, energy efficiency, fish and wildlife, and information technology projects.

#### **Power Services**

- Power Services Net Revenues for FY 2013 are negative \$15 million.
  - Operating Revenues for FY 2013 are \$2,632 million.
  - Total expenses (operating expenses and net interest) for FY 2013 are \$2,647 million.
- Power's Net Revenue forecast for the Rate Case was negative \$2 million and Start-of-Year was negative \$17 million. The 3rd Quarter Review forecast was \$0 million.
- Power Services net revenues were \$14 million less than the rate case forecast.
  - Due to lower than expected streamflows, revenues (total revenues less power purchases, augmentation, and transmission acquisition) in FY 2013 came in \$127 million below the rate case forecast. The primary drivers were:
    - o Net Secondary revenues were \$18 million below rate case, due to a lower market price environment and below-average water year.
    - o Lower preference loads than expected reduced load shaping and demand revenues by a total of \$46 million.
    - The 4(h)(10)(C) credit was lower than rate case by \$12 million. This decrease was due to lower than forecast market prices which resulted in lower purchase power costs.
    - o Transmission acquisition costs came in \$10 million higher than the rate case.
  - Power Services expenses (total costs excluding power purchases, augmentation, and transmission acquisition) were \$113 million below the rate case forecast.
    - Trojan operation and maintenance costs were \$28 million less than the rate case due to the Trojan Spent Fuel Settlement.
    - o Energy Northwest debt service decreased \$23 million due to additional nonfederal refinancing/restructuring and the ISFSI settlement.
    - Columbia Generating Station costs were \$16 million lower due to updates to the decommissioning trust fund schedule (due to a CGS license extension) and the return to CGS of excess monies related to the depleted Uranium Program.
    - o Internal operating costs were \$11 million below the rate case due to hiring delays, contracting delays for R&D projects, slower than expected progress for the EIM system, and the use of fewer IT resources for the new regional contracts.
    - Net interest costs were \$12 million less than forecast due to a reduction in the average interest rate for federal bonds offset somewhat by increases in the interest expense associated with Pre-Pay funds.
    - Depreciation and Amortization costs were \$9 million higher due to IT capital projects being placed in service sooner than expected and Fed Hydro
      plant in service actuals coming in higher than forecast.
    - Renewables costs were down \$8 million due to lower than expected spending for new resource development and the receipt of FERC-ordered punitive damages for Foote Creek I and IV wind projects.
    - o Conservation Acquisition costs were down \$6 million due to contracting challenges and funds held to accommodate forecasted partner spending that did not materialize.

#### Financial Overview for FY 2013 through September 30, 2013

#### **Transmission Services**

- Transmission Services Net Revenues for FY 2013 are \$71 million.
  - Actual Revenues for FY 2013 are \$980 million.
  - Actual Total Expense (operating expenses and net interest) for FY 2013 are \$909 million.
- The Net Revenue Rate Case forecast was \$29 million and the Start-of-Year forecast was \$69 million. The 3rd Quarter Review forecast was \$75 million.
- Transmission Services exceeded expectations with net revenues coming in \$43 million over the rate case forecast.
  - Revenues were \$10 million higher than the rate case mainly due to higher than expected Reimbursable, PTSA termination fees, and Gen Input revenues offset by decreases in Point-to-Point revenues.
  - Lower spending, \$33 million, was primarily driven by lower depreciation and interest expense reflecting lower than expected capital spending and lower than expected interest rates on borrowings. These savings were partially offset by unexpected capital to expense write-offs and settlement payments.

Federal Columbia River Power System (FCRPS)

FY 2013 FOURTH QUARTER REVIEW

**Net Revenues and Reserves** 

**Actual Results for FY 2013** 



October 31, 2013

# 4th Quarter Review – Executive Highlights

(\$ in Millions)

( <b>v</b> ==	Α	В	С
	FY 2012 Actuals <sup>/2</sup>	FY 2013 Start of Year <sup>/2</sup>	FY 2013 Unadited EOY Actuals <sup>/2</sup>
1. Revenues <sup>/1</sup>	3,380	3,381	3,413
2. Expenses <sup>/1</sup>	3,293	3,488	3,518
3. Net Revenues <sup>/1,3</sup>	87	(107)	(105)
4. Adjusted Net Revenue 14	128	51	56
5. End of Year Financial Reserves 15	1,022	980	1,272
6. BPA Accrued Capital Expenditures <sup>/6</sup>	664	995	632

#### **Footnotes**

- <1 The actuals for Revenues, Expenses and Net Revenues are audited.
- <2 Does not reflect power "bookout" transactions.</p>
- <3 Net revenues include the effects of non-federal debt management. An example of non-federal debt management is the refinancing of EN debt.</p>
- <4 Adjusted Net Revenue is calculated by adding Power Services and Transmission Services Net Revenues.</p>
- <5 Financial reserves consist of BPA cash, investments in U.S. Treasury market-based special securities and deferred borrowing.</p>
- <6 Funded by borrowing from the U.S. Treasury.

# FY 2013 End of Year Financial Results & FY 2014 SOY Budget

Transmission Services Summary Statement of Revenues and Expenses

Requesting BL: TRANSMISSION BUSINESS UNIT Unit of Measure: \$ Thousands

Report ID: 0023FY13

Through the Month Ended September 30, 2013 Preliminary/ Unaudited Run Date/Time: October 21, 2013/ 04:48
Data Source: EPM Data Warehouse
% of Year Elapsed = 100%

		Α	В			C D <note 1=""></note>		E	
		FY 2012			FY 2013			FY 2013	
		Actuals	Rate Case		SOY Budget	Current EOY Forecast		Actuals: FYTD	
	Operating Revenues								
1	Sales	\$ 790,969	\$ 844,33	31	\$ 821,638	\$ 804,463	\$	803,690	
2	Miscellaneous Revenues	30,263	31,80	)2	38,615	50,348		54,007	
3	Inter-Business Unit Revenues	143,909	93,88	88	103,067	109,110		122,177	
4	Total Operating Revenues	965,141	970,02	21	963,319	963,922		979,873	
	Operating Expenses								
5	Transmission Operations	121,792	133,59	90	131,248	123,016		114,942	
6	Transmission Maintenance	135,377	150,83	31	153,278	148,808		146,933	
7	Transmission Engineering	46,111	32,80	)3	41,855	42,493		45,876	
8	Trans Services Transmission Acquisition and Ancillary Services	152,809	142,07		147,825	152,195		156,807	
9	Transmission Reimbursables BPA Internal Support	26,722	9,91	4	9,682	11,725		27,225	
10	Additional Post-Retirement Contribution	17,243	17.82	,,	17.821	17,821		17,820	
11	Agency Services G&A	57,065	60,96		58,357	59,802		59,868	
12	Other Income, Expenses & Adjustments	(280)	00,00	-	(2,297)	,		(1,629)	
13	Depreciation & Amortization	189,811	218,12	24	196,980	202,680		206,545	
14	Total Operating Expenses	746,650	766,12	22	754,748	759,159		774,388	
15	Net Operating Revenues (Expenses)	218,491	203,89	9	208,572	204,763		205,486	
	Interest Expense and (Income)								
16	Interest Expense	180,083	228,88	37	190,357	175,116		174,430	
17	AFUDC	(37,010)	(32,25		(33,400)	,		(26,855)	
18	Interest Income	(13,293)	(21,46	- 1	(17,260)	(14,067)		(13,493)	
19	Net Interest Expense (Income)	129,781	175,16		139,697	129,649		134,082	
20	Net Revenues (Expenses)	\$ 88,710	\$ 28,73	4	\$ 68,875	\$ 75,114	\$	71,404	

<sup>&</sup>lt;1 Although the forecasts in this report are presented as point estimates, BPA operates a hydro-based system that encounters much uncertainty regarding water supply and wholesale market prices. These uncertainties, among other factors, may result in large range swings +/- impacting the final results in revenues, expenses, and cash reserves.</p>

Report ID: 0023FY14 Transmission Services Summary Statement of Revenues and Expenses Run Date/Time: October 31, 2013/11:27
Requesting BL: TRANSMISSION BUSINESS UNIT SOY to Rate Case Comparison Data Source: EPM Data Warehouse

Unit of Measure: \$ Thousands

		A B		С
		FY:	2014	FY 2014
		Rate Case	SOY Budget	Delta: SOY - Rate Case
	Operating Revenues			
1	Sales	\$ 880,697	\$ 885,210	\$ 4,513
2	Miscellaneous Revenues	34,349	34,357	8
3	Inter-Business Unit Revenues	111,560	108,273	(3,288)
4	Total Operating Revenues	1,026,607	1,027,840	1,233
	Operating Expenses			
5	Transmission Operations	140.729	137.877	(2,852)
6	Transmission Maintenance	154,233	154,348	115
7	Transmission Engineering	41,638	41,627	(11)
8	Trans Services Transmission Acquisition and Ancillary Services	131,287	144,052	12,765
9	Transmission Reimbursables	10,530	10,333	(197)
	BPA Internal Support			
10	Additional Post-Retirement Contribution	18,501	18,501	0.700
11 12	Agency Services G&A Other Income, Expenses & Adjustments	59,927	62,713	2,786
13	Depreciation & Amortization	197,316	208,515	11,199
14	Total Operating Expenses	754,161	777,966	23,805
15	Net Operating Revenues (Expenses)	272,446	249,874	(22,571)
	Interest Expense and (Income)			
16	Interest Expense	190,047	183,343	(6,704)
17	AFUDC	(36,477)	•	4,277
	Interest Income	` ' '	` ' '	, i
18		(9,647)	· · · · · ·	(1,274)
19	Net Interest Expense (Income)	143,923	140,222	(3,701)
20	Net Revenues (Expenses)	\$ 128,523	\$ 109,652	\$ (18,871)

<sup>&</sup>lt;1 Although the forecasts in this report are presented as point estimates, BPA operates a hydro-based system that encounters much uncertainty regarding water supply and wholesale market prices. These uncertainties, among other factors, may result in large range swings +/- impacting the final results in revenues, expenses, and cash reserves.</p>

Report ID: 0063FY13 Transmission Services Revenue Detail by Product

Requesting BL: TRANSMISSION BUSINESS UNIT Through the Month Ended September 30, 2013

Unit of Measure: \$ Thousands Preliminary/ Unaudited

Run Date/Time: October 22, 2013 08:44

Data Source: EPM Data Warehouse
% of Year Elapsed = 100%

		Α		В	С	D	
			FY 2013				FY 2013
		Ra	Rate Case SOY Budget Current EOY Forecast			Actuals	
	Transmission Services Operating Revenues						
	NETWORK						
1	PTP - LONG TERM	\$	376,256	\$ 367,184	\$ 368,627	\$	368,449
2	NETWORK INTEGRATION		132,022	126,030	120,360		122,700
3	INTEGRATION OF RESOURCES		25,679	22,191	22,191		22,191
4	FORMULA POWER TRANSMISSION		25,629	25,453	25,451		25,393
5	PTP - SHORT TERM		28,069	25,544	20,235		20,475
6	TOTAL: NETWORK		587,655	566,403	556,865		559,208
	ANCILLARY SERVICES						
7	SCHEDULING, SYSTEM CONTROL & DISPATCH		95,881	93,798	92,534		92,611
8	OPERATING RESERVES - SPIN & SUPP		45,417	60,567	57,845		59,045
9	VARIABLE RES BALANCING		66,229	50,555	52,905		52,190
10	REGULATION & FREQ RESPONSE		6,513	6,550	6,435		6,444
11	ENERGY & GENERATION IMBALANCE		-	4,776	6,459		6,581
12	DISPATCHABLE RES BALANCING		-	3,545	3,139		3,062
13	TOTAL: ANCILLARY SERVICES		214,040	219,791	219,317		219,932
	INTERTIE						
14	SOUTHERN INTERTIE LONG TERM		92,200	92,250	92,413		92,814
15	SOUTHERN INTERTIE SHORT TERM		4,463	5,089	6,262		4,638
16	MONTANA INTERTIE LONG TERM		115	115	115		115
17	MONTANA INTERTIE SHORT TERM		-	-	-		131
18	TOTAL: INTERTIE		96,777	97,454	98,790		97,698

Report ID: 0063FY13 Transmission Services Revenue Detail by Product

Requesting BL: TRANSMISSION BUSINESS UNIT Through the Month Ended September 30, 2013
Unit of Measure: \$ Thousands Preliminary/ Unaudited

Run Date/Time: October 22, 2013 08:44

Data Source: EPM Data Warehouse
% of Year Elapsed = 100%

		А В		С	D
			FY 2013		FY 2013
		Rate Case	SOY Budget	Current EOY Forecast	Actuals
	OTHER REVENUES & CREDITS				
19	TOWNSEND-GARRISION TRANS	\$ 9,796	\$ 12,421	\$ 12,357	\$ 12,352
20	GEN INTEGRATION - OTHER REV	8,726	8,709	8,720	8,725
21	USE OF FACILITIES	5,146	5,397	5,136	4,797
22	POWER FACTOR PENALTY	4,174	4,174	3,418	1,830
23	NFP - DEPR PNW PSW INTERTIE	3,065	2,943	3,180	3,262
24	AC - PNW PSW INTERTIE - OTH REV	1,432	1,553	1,577	1,465
25	OPERATIONS & MAINT - OTHER REV	1,145	1,079	1,049	1,076
26	COE & BOR PROJECT REV	954	954	954	954
27	RESERVATION FEE - OTHER REV	1,937	593	567	491
28	TRANSMISSION SHARE IRRIGATION	382	382	429	220
29	LAND LEASES AND SALES	301	301	280	245
30	OTHER LEASES REVENUE	106	106	100	116
31	REMEDIAL ACTION - OTHER REV	51	51	42	38
32	MISC SERVICES - LOSS-EXCH-AIR	-	100	143	753
33	FAILURE TO COMPLY - OTHER REV	-	-	-	700
34	UNAUTHORIZED INCREASE - OTH REV	-	-	-	62
35	OTHER REVENUE SOURCES	-	-	-	10,846
36	TOTAL: OTHER REVENUES & CREDITS	37,216	38,763	37,955	47,931
	FIBER & PCS				
37	FIBER OTHER REVENUE	6,786	7,936	9,147	9,148
38	WIRELESS/PCS - OTHER REVENUE	4,861	4,861	5,486	5,171
39	WIRELESS/PCS - REIMBURSABLE REV	1,206	1,185	1,144	2,277
40	FIBER OTHER REIMBURSABLE REV	850	1,157	524	684
41	TOTAL: FIBER & PCS	13,704	15,140	16,301	17,280
	REIMBURSABLE				
42	REIMBURSABLE - OTHER REVENUE	15,875	21,219	29,726	35,430
43	ACCRUAL REIMBURSABLE	-	-	-	(2,398)
44	TOTAL: REIMBURSABLE	15,875	21,219	29,726	33,032
	DELIVERY				
45	UTILITY DELIVERY CHARGES	2,969	2,765	2,338	2,161
46	DSIDELIVERY	1,785		2,630	2,630
47	TOTAL: DELIVERY	4,753	†	4,968	4,791
48	TOTAL: Transmission Services Operating Revenues	\$ 970,021	\$ 963,319	\$ 963,922	\$ 979,873

Report ID: 0021FY13
Requesting BL: POWER BUSINESS UNIT
Unit of measure: \$ Thousands

#### Power Services Summary Statement of Revenues and Expenses Through the Month Ended September 30, 2013 Preliminary/Unaudited

Run Date/Time: October 21, 2013 04:47
Data Source: EPM Data Warehouse
% of Year Elapsed = 100%

			Α		В		С	D <note 1<="" th=""><th></th><th>E</th></note>		E
			FY 2012				FY 2013			FY 2013
			Actuals	R	tate Case	so	OY Budget	 rrent EOY Forecast		Actuals: FYTD
0	perating Revenues									
1	Gross Sales (excluding bookout adjustment) <note 2<="" td=""><td>\$</td><td>2,450,595</td><td>\$</td><td>2,501,672</td><td>\$</td><td>2,407,477</td><td>\$ 2,457,974</td><td>\$</td><td>2,438,468</td></note>	\$	2,450,595	\$	2,501,672	\$	2,407,477	\$ 2,457,974	\$	2,438,468
2	Bookout Adjustment to Sales		(61,972)		-		-	(58,870)		(66,587)
3	Miscellaneous Revenues		26,412		26,335		27,181	26,544		28,013
4	Inter-Business Unit		134,716		131,078		138,442	140,828		143,689
5	U.S. Treasury Credits		81,583		100,447		85,999	92,777		88,692
6	Total Operating Revenues		2,631,334		2,759,531		2,659,099	2,659,253		2,632,274
0	perating Expenses									
	Power System Generation Resources									
	Operating Generation Resources									
7	Columbia Generating Station		292,636		345,945		338,267	330,147		330,066
8	Bureau of Reclamation		89,005		119,891		132,391	128,691		127,116
9	Corps of Engineers		206,967		215,700		215,700	215,700		208,096
10	Long-term Contract Generating Projects		25,869		25,831		26,008	23,490		22,518
11	Operating Generation Settlement Payment		20,437		22,148		20,785	22,121		22,122
12	Non-Operating Generation		2,153		1,948		2,316	(22,400)		(25,878)
13	Gross Contracted Power Purchases and Aug Power Purchases		205,350		164,905		119,364	191,973		220,987
14	Bookout Adjustment to Power Purchases		(61,972)		-		-	(58,870)		(66,587)
15	Residential Exchange/IOU Settlement Benefits <note 2<="" td=""><td></td><td>203,712</td><td></td><td>201,760</td><td></td><td>203,200</td><td>202,689</td><td></td><td>201,933</td></note>		203,712		201,760		203,200	202,689		201,933
16	Renewables		34,018		38,142		38,140	36,140		30,463
17	Generation Conservation		37,505		47,850		47,850	41,396		36,078
18	Subtotal Power System Generation Resources		1,055,679		1,184,120		1,144,021	1,111,077		1,106,913
19	Power Services Transmission Acquisition and Ancillary Services		175,873		157,185		158,498	164,499		162,351
20	Power Non-Generation Operations		79,919		90,255		89,582	84,121		79,302
21	Fish and Wildlife/USF&W/Planning Council/Environmental Requirements		280,197		281,639		283,157	282,194		277,802
	BPA Internal Support									
22	Additional Post-Retirement Contribution		17,243		17,821		17,243	17,821		17,820
23	Agency Services G&A		52,789		52,662		52,586	53,949		52,108
24	Other Income, Expenses & Adjustments		107					702		(127)
25	Non-Federal Debt Service		561,308		541,586		520,504	518,504		518,536
26	Depreciation & Amortization		199,286		214,327		211,403	218,978		223,172
27	Total Operating Expenses	_	2,422,400		2,539,594		2,476,994	2,451,844		2,437,878
28	Net Operating Revenues (Expenses)		208,934		219,937		182,105	207,409		194,397
In	terest Expense and (Income)	I		1					l	
29	Interest Expense		208,884		251,792		224,430	235,738		235,578
30	AFUDC		(8,835)		(13,592)		(13,410)	(11,235)		(10,674)
31	Interest Income		(30,301)		(16,756)		(11,500)	(16,617)		(15,444)
32	Net Interest Expense (Income)		169,748		221,444		199,520	207,886		209,460
33 <b>N</b>	et Revenues (Expenses)	\$	39,185	\$	(1,507)	\$	(17,415)	\$ (476)	\$	(15,064)

Power Services ANR as-of 3rd Quarter Forecast FY2013 (in Millions) (\$0.5)

	ANR = \$-0.5	]
CRAC: ANR ≤ (\$185.5)	No CRAC or DDC	DDC: ANR ≥ \$564.5
		<note 3<="" th=""></note>

<sup>&</sup>lt;1 Although the forecasts in this report are presented as point estimates, BPA operates a hydro-based system that encounters much uncertainty regarding water supply and wholesale market prices. These uncertainties, among other factors, may result in large range swings +/- impacting the final results in revenues, expenses, and cash reserves.</p>

<sup>&</sup>lt;2 The Residential Exchange Program expenses reflect the Scheduled Amount of REP benefits payments established in the 2012 REP Settlement Agreement. The Scheduled Amount of REP benefit payments incorporates a \$76,537,617 reduction in REP benefits to provide Refund Amount payments to COUs. The Refund Amount returned to the COUs is reflected through a reduction in the Gross Sales amount.</p>

<sup>&</sup>lt;3 Accumulated Net Revenue (ANR) for 2013 is the current forecast of Power Services Net Revenue for 2013. The Cost Recovery Adjustment Clause (CRAC) is an upward adjustment to certain rates that would apply during FY2014. The Dividend Distribution Clause (DDC) is a downward adjustment to certain rates that would apply during FY2014. For more information on ANR, CRAC or DDC, please refer to pages 39-49 of the 2014 Wholesale Power and Transmission Rate Adjustment Proceeding (BP-14), Appendix A: Power Rate Schedules (BP-14-A-03-AP01-CC01) http://www.bpa.gov/Finance/RateCases/BP-14RateAdjustmentProceeding/BP14FinalProposal/BP-14-A-03-AP01-CC01.pdf</p>

Unit of measure: \$ Thousands

Part			Α	В	С
Part			FY	2014	FY 2014
Gross Sales (excluding bookout adjustment) +Note 2   8,080   1,080			Rate Case	SOY Budget	
Gross Sales (excluding bookout adjustment) +Note 2   8,080   1,080	c	Operating Revenues			
Bookout Adjustment to Sales   29,689   35,816   6,127   117,696   128,405   10,709   128,405   101,773			\$ 2 434 517	\$ 2 450 597	\$ 16,080
Miscellaneous Revenues   29,688   35,816   10,707   101,703   10				- 2,100,007	-
101.773			29.689	35.816	6.127
Total Operating Expenses   2,683,675   2,716,591   32,916	4	Inter-Business Unit	117,696	128,405	10,709
Power System Generation Resources	5	U.S. Treasury Credits	101,773	101,773	- 1
Power System Generation Resources	6	Total Operating Revenues	2,683,675	2,716,591	32,916
Coperating Generation Resources	C	Operating Expenses			
7         Columbia Generating Station         298,751         300,514         1,763           8         Bureau of Reclamation         140,601         140,601         140,601         19           9         Corps of Engineers         225,687         225,687         225,687         1           10         Long-term Contract Generating Projects         25,999         25,284         (715)           11         Operating Generation Generation         21,405         21,405         -1           12         Non-Operating Generation         2,206         2,400         194           3         Gross Contracted Power Purchases and Aug Power Purchases         76,915         95,444         18,529           15         Residential Exchange/I/OU Settlement Benefits -Note 2         201,919         201,919         201,919         -           16         Renewables         39,799         39,807         8           8         Subtotal Power System Generation Resources         1,081,669         1,108,822         27,133           18         Subtotal Power System Generation Resources         1,081,669         1,108,822         27,133           19         Power Services Transmission Acquisition and Ancillary Services         92,156         89,980         (2,176)		Power System Generation Resources			
Bureau of Reclamation   140,601   140,601   - 1   -		Operating Generation Resources			
Corps of Engineers		Columbia Generating Station	298,751	300,514	1,763
Composition					-
11         Operating Generation Settlement Payment         21,405         21,405         1,405         1,405         2,206         2,400         1,94         1,94         1,94         1,94         1,94         1,94         1,94         1,94         1,94         1,94         1,94         1,94         1,94         1,95,29         1,95,29         1,95,29         1,95,29         1,95,29         2,01,919         2,01,919         2,01,919         2,01,919         2,01,919         2,01,919         2,01,919         2,01,919         2,01,919         2,01,919         3,97,99         3,98,07         8         8         8         8,000         8         5,760         7,353         8         8         8,000         1,081,689         1,108,822         27,133         1,081,689         1,108,822         27,133         1,081,689         1,108,822         27,133         1,081,689         1,108,822         27,133         1,081,689         1,108,822         27,133         1,081,689         1,108,822         27,133         1,081,689         1,108,822         27,133         1,081,689         1,108,822         27,133         1,081,689         1,108,822         27,133         1,081,689         1,108,822         27,133         1,081,689         1,108,822         27,133         1,081,689			- ,	- /	-
194   Non-Operating Generation   2,206   2,400   194   18,529					(715)
3   Gross Contracted Power Purchases and Aug Power Purchases   76,915   95,444   18,529     14   Bookout Adjustment to Power Purchases   76,915   95,444     15   Bookout Adjustment to Power Purchases   76,915   95,444     16   Bookout Adjustment to Power Purchases   76,915   95,444     17   Generation Conservation   79,979   39,807     17   Generation Conservation   48,408   55,760   7,353     18   Subtotal Power System Generation Resources   1,081,689   1,108,822     19   Power Services Transmission Adquisition and Ancillary Services   164,845   164,311   (534)     10   Power Non-Generation Operations   92,156   89,980   (2,176)     17   Fish and Wildlife/USF&W/Planning Council/Environmental Requirements   92,156   89,980   (2,176)     18   Power Services Transmission Adquisition and Ancillary Services   92,238   295,238   295,238     18   Power Services Gave   92,156   89,980   (2,176)     19   Power Services Gave   92,238   295,238   295,238     18   Power Services Gave   92,238   295,238   295,238     19   Power Services Gave   92,238   295,238   295,238     19   Power Services Gave   92,238   295,238   295,238     19   Power Services Gave   92,156   89,980   (2,176)     10   Power Non-Generation Operations   92,156   89,980   (2,176)     10   Power Non-Generation Operations   92,156   89,980   (2,176)     18   Power Services Gave   92,156   89,980   (2,176)     18   Power Services Gave   92,156   89,980   (2,176)     18   Power Services Gave   92,156   92,156   92,156     18   Power Services Gave   92,156   92,156   92,156   92,156   92,156   92,156   92,156   92,156   92,156   9			,	,	-
Bookout Adjustment to Power Purchases   201,919   201,919   1   1   1   1   1   1   1   1   1				,	
15       Residential Exchange/IOU Settlement Benefits ≺Note 2       201,919       201,919       -         16       Renewables       39,799       39,807       8         17       Generation Conservation       48,408       55,760       7,353         18       Subtotal Power System Generation Resources       1,081,689       1,108,822       27,133         19       Power Services Transmission Acquisition and Ancillary Services       164,845       164,311       (534)         20       Power Non-Generation Operations       92,156       89,980       (2,176)         21       Fish and Wildlife/USF&W/Planning Council/Environmental Requirements       295,238       295,238       295,238         25       PA Internal Support       18,501       18,501       4         24       Additional Post-Retirement Contribution       18,501       18,501       -         23       Agency Services G&A       55,102       59,353       4,251         24       Other Income, Expenses & Adjustments       514,848       515,983       1,135         26       Depreciation & Amortization       224,447       227,870       3,423         27       Total Operating Expenses       2,446,827       2,480,057       33,231         1nterest Expense			76,915	95,444	18,529
16         Renewables         39,799         39,807         8           17         Generation Conservation         48,408         55,760         7,353           18         Subtotal Power System Generation Resources         1,081,689         1,108,822         27,133           19         Power Services Transmission Acquisition and Ancillary Services         164,845         164,311         (534)           20         Power Non-Generation Operations         92,156         89,980         (2,176)           21         Fish and Wildlife/USF&W/Planning Council/Environmental Requirements         295,238         295,238         -           21         Fish and Wildlife/USF&W/Planning Council/Environmental Requirements         295,238         295,238         -           22         Additional Post-Retirement Contribution         18,501         18,501         -           23         Agency Services G&A         55,102         59,353         4,251           24         Other Income, Expenses & Adjustments         51,4848         515,983         1,135           25         Non-Federal Debt Service         514,848         515,983         1,135           26         Depreciation & Amortization         224,447         227,870         3,423           27         Total Operating		,	-	-	-
Generation Conservation   48,408   55,760   7,353   Subtotal Power System Generation Resources   1,081,689   1,108,822   27,133   1,081,689   1,108,822   27,133   27,133   1,1081,689   1,108,822   27,133   27					-
Subtotal Power System Generation Resources   1,081,689   1,108,822   27,133     Power Services Transmission Acquisition and Ancillary Services   164,845   164,311   (534)     Power Non-Generation Operations   92,156   89,980   (2,176)     Fish and Wildlife/USF &W/Planning Council/Environmental Requirements   295,238   295,238     Power Non-Generation Operations   295,238   295,238     Power Non-Generation Operations   92,156   89,980   (2,176)     Power Non-Generation Operations   92,156   89,980   (2,176)     Power Non-Generation Operations   295,238   295,238     Power Non-Generation Operations   293,238   295,238     Power Non-Generation Operations   293,238     Power Non-Generation Operations   294,447   297,870     Power Non-Generation Operations   295,238     Power Non-Generation Operations   294,447     Power Non-Generation Operations   294,447     Power Non-Generation Operations   294,447     Power Non-Generation Operations   294,447     Power Non-Gene				,	8
Power Services Transmission Acquisition and Ancillary Services   164,845   164,311   (534)					
Power Non-Generation Operations   92,156   89,980   (2,176)     Fish and Wildlife/USF&W/Planning Council/Environmental Requirements   295,238	18	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
21       Fish and Wildlife/USF&W/Planning Council/Environmental Requirements BPA Internal Support       295,238       295,238       -         22       Additional Post-Retirement Contribution       18,501       18,501       -         23       Agency Services G&A       55,102       59,353       4,251         24       Other Income, Expenses & Adjustments       -       -       -         25       Non-Federal Debt Service       514,848       515,983       1,135         26       Depreciation & Amortization       224,447       227,870       3,423         27       Total Operating Expenses       2,446,827       2,480,057       33,231         28       Net Operating Revenues (Expenses)       236,848       236,534       (315)         Interest Expense and (Income)       254,797       255,092       295         30       AFUDC       (11,168)       (11,900)       (732)         31       Interest Expense (Income)       (15,845)       (13,894)       1,951         32       Net Interest Expense (Income)       227,784       229,298       1,514				,	
BPA Internal Support			- ,	,	(2,176)
22       Additional Post-Retirement Contribution       18,501       18,501       -         23       Agency Services G&A       55,102       59,353       4,251         24       Other Income, Expenses & Adjustments       -       -       -         25       Non-Federal Debt Service       514,848       515,983       1,135         26       Depreciation & Amortization       224,447       227,870       3,423         27       Total Operating Expenses       2,446,827       2,480,057       33,231         28       Net Operating Revenues (Expenses)       236,848       236,534       (315)         Interest Expense and (Income)       254,797       255,092       295         30       AFUDC       (11,168)       (11,900)       (732)         31       Interest Income       (15,845)       (13,894)       1,951         32       Net Interest Expense (Income)       227,784       229,298       1,514	21		295,238	295,238	-
23       Agency Services G&A       55,102       59,353       4,251         24       Other Income, Expenses & Adjustments       -       -       -         25       Non-Federal Debt Service       514,848       515,983       1,135         26       Depreciation & Amortization       224,447       227,870       3,423         27       Total Operating Expenses       2,446,827       2,480,057       33,231         28       Net Operating Revenues (Expenses)       236,848       236,534       (315)         Interest Expense and (Income)       254,797       255,092       295         30       AFUDC       (11,168)       (11,900)       (732)         31       Interest Income       (15,845)       (13,894)       1,951         32       Net Interest Expense (Income)       227,784       229,298       1,514					
24       Other Income, Expenses & Adjustments       -				,	
25       Non-Federal Debt Service       514,848       515,983       1,135         26       Depreciation & Amortization       224,447       227,870       3,423         27       Total Operating Expenses       2,446,827       2,480,057       33,231         28       Net Operating Revenues (Expenses)       236,848       236,534       (315)         Interest Expense and (Income)       254,797       255,092       295         30       AFUDC       (11,168)       (11,900)       (732)         31       Interest Income       (15,845)       (13,894)       1,951         32       Net Interest Expense (Income)       227,784       229,298       1,514			55,102	59,353	4,251
Depreciation & Amortization       224,447       227,870       3,423         Total Operating Expenses       2,446,827       2,480,057       33,231         Net Operating Revenues (Expenses)       236,848       236,534       (315)         Interest Expense and (Income)       254,797       255,092       295         30       AFUDC       (11,168)       (11,900)       (732)         31       Interest Income       (15,845)       (13,894)       1,951         32       Net Interest Expense (Income)       227,784       229,298       1,514					
Total Operating Expenses       2,446,827       2,480,057       33,231         Net Operating Revenues (Expenses)       236,848       236,534       (315)         Interest Expense and (Income)       254,797       255,092       295         30 AFUDC       (11,168)       (11,900)       (732)         31 Interest Income       (15,845)       (13,894)       1,951         32 Net Interest Expense (Income)       227,784       229,298       1,514					
Net Operating Revenues (Expenses)         236,848         236,534         (315)           Interest Expense and (Income)         254,797         255,092         295           30 AFUDC         (11,168)         (11,900)         (732)           31 Interest Income         (15,845)         (13,894)         1,951           32 Net Interest Expense (Income)         227,784         229,298         1,514					
Interest Expense and (Income)           29         Interest Expense         254,797         255,092         295           30         AFUDC         (11,168)         (11,900)         (732)           31         Interest Income         (15,845)         (13,894)         1,951           32         Net Interest Expense (Income)         227,784         229,298         1,514					
29     Interest Expense     254,797     255,092     295       30     AFUDC     (11,168)     (11,900)     (732)       31     Interest Income     (15,845)     (13,894)     1,951       32     Net Interest Expense (Income)     227,784     229,298     1,514			230,848	230,534	(315)
30     AFUDC     (11,168)     (11,900)     (732)       31     Interest Income     (15,845)     (13,894)     1,951       32     Net Interest Expense (Income)     227,784     229,298     1,514			054.707	055.000	005
31     Interest Income     (15,845)     (13,894)     1,951       32     Net Interest Expense (Income)     227,784     229,298     1,514				,	
32 Net Interest Expense (Income) 227,784 229,298 1,514			` ' '	` ' '	` '
			· · · · · · · ·	· · · · · ·	
33 Net Revenues (Expenses) \$ 9,065   \$ 7,236   \$ (1,829)	32	Net Interest Expense (Income)	227,784		
	33 <mark>N</mark>	let Revenues (Expenses)	\$ 9,065	\$ 7,236	\$ (1,829)

Report ID: 0064FY13 Power Services Detailed Statement of Revenues by Product

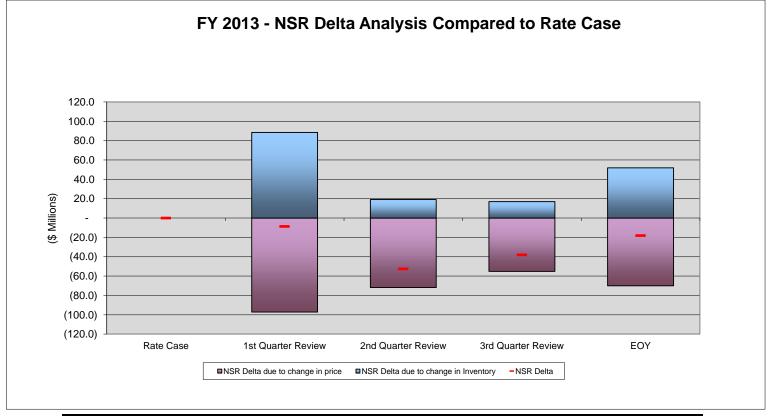
Requesting BL: POWER BUSINESS UNIT Through the Month Ended September 30, 2013

Unit of Measure: \$ Thousands Preliminary/ Unaudited

Run Date\Time: October 22, 2013 08:43
Data Source: EPM Data Warehouse
% of Year Elapsed = 100%

		A B		С	D FY 2013
		FY 2	2013	3 FY 2013	
		Rate Case	SOY Budget	Actuals	Actuals per Rate Case
	Operating Revenues				
	Gross Sales (excluding bookout adjustment)				
	PF Tier 1 Revenues				
	Load Following				
1	Composite	\$ 1,049,506	\$ 1,049,506	\$ 1,049,107	100%
2	Non-Slice	(208,995)	(208,995)	(208,916)	100%
3	Load Shaping	(12,268)	(3,792)	(38,103)	311%
4	Demand	61,269	60,262	34,759	57%
5	Discounts / Fees	(44,009)	(44,009)	(34,493)	78%
6	RSS / RSC	240	240	573	239%
7	REP Refund	(33,036)	(33,036)	(33,036)	100%
8	Other	-	-	(153)	0%
9	Sub-Total: Load Following	812,707	820,176	769,739	95%
	Block				
10	Composite	597,416	597,416	602,931	101%
11	Non-Slice	(118,967)	(118,967)	(120,065)	101%
12	Load Shaping	1,012	858	779	77%
13	Demand	-	-	-	0%
14	Discounts / Fees	(4,963)	(4,963)	(9,319)	188%
15	RSS / RSC	-	-	-	0%
16	REP Refund	(21,459)	(21,459)	(21,459)	100%
17	Other	- 1	- 1	(324)	0%
18	Sub-Total: Block	453,039	452,885	452,542	100%
	Slice	·		·	
19	Composite	629,081	629,081	629,084	100%
20	Slice	-	-	- 1	0%
21	Discounts / Fees	(3,277)	(3,277)	(2,757)	84%
22	REP Refund	(22,042)	(22,042)	(22,042)	100%
23	Other			- 1	0%
24	Sub-Total: Slice	603,762	603,762	604,286	100%
25	PF Tier 2 Revenues	24,123	24,123	24,125	100%
26	NR Revenues	, <u> </u>	, -		0%
27	IP Revenues	108,334	101,772	101.159	93%
28	FPS Revenues	461,508	374,584	484,221	105%
29	Other Revenues	38,199	30,175	2,396	6%
	Gross Sales (excluding bookout adjustment)	2,501,672	2,407,477	2,438,468	97%
	Bookout Adjustment to Sales	-	-	(66,587)	0%
32	Miscellaneous Revenues	26,335	27,181	28,013	106%
	Inter-Business Unit	131,078	138,442	143,689	110%
	U.S. Treasury Credits	100,447	85,999	88,692	88%
_	otal Operating Revenues	2,759,531	2,659,099	2,632,274	95%
33 <u>I</u>	our operating heveildes	2,139,331	2,033,033	2,032,214	33 /0

## **NSR Delta Analysis – Price/Inventory Comparison**



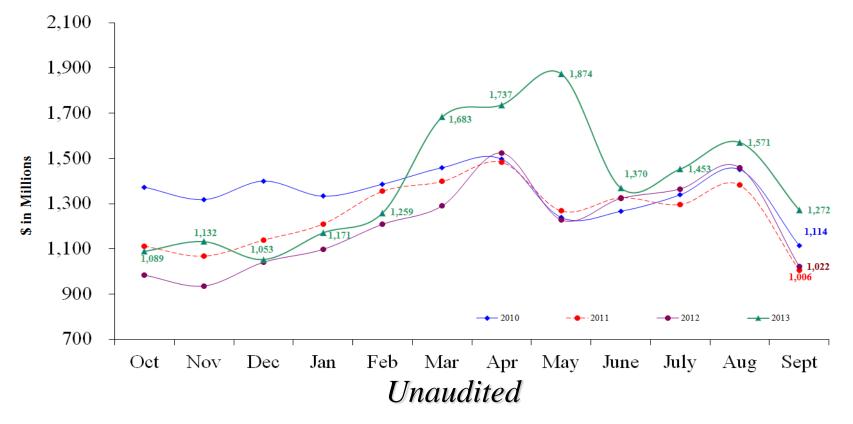
Delta Analysis compared to Rate Case (\$ Millions)	Rate Case	1st Quarter Review	2nd Quarter Review	3rd Quarter Review	EOY
Net Secondary Revenue Forecast	363.6	355.0	311.0	368.2	345.5
NSR Delta	-	(8.6)	(52.6)	(38.1)	(18.1)
NSR Delta due to change in price	-	(97.1)	(71.8)	(55.1)	(70.0)
NSR Delta due to change in Inventory	-	88.5	19.2	17.0	51.9

<sup>1)</sup> Inventory shape can cause lower average price of power, or "unit value of inventory". In this analysis, these changes are classified as changes due to price.

<sup>2)</sup> Rate Case reflects an Adjusted Rate Case NSR removing \$66 million in augmentation expense (BP-12 Rate Case).

#### **Financial Reserves**

#### Reserves as of the end of September 2013 are \$1,272 million

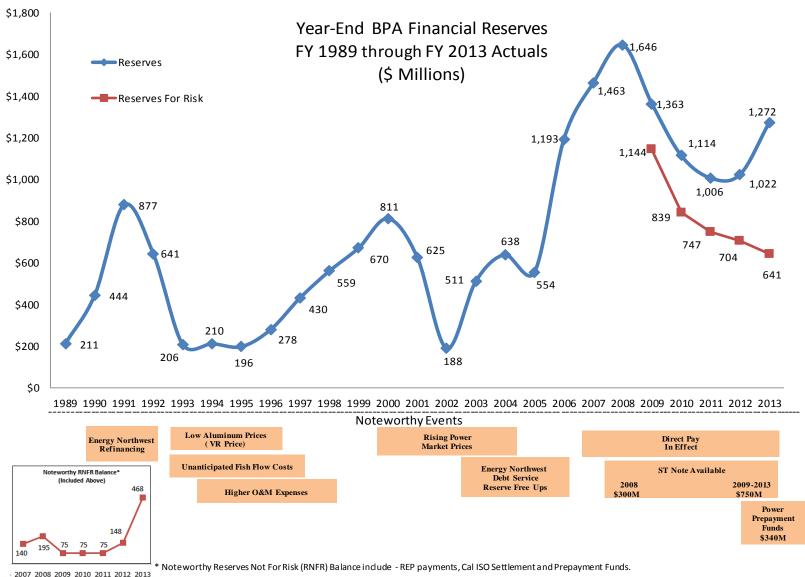


Q4 - End of FY13 Reserves

(\$ Millions)	_
End FY13 Reserves	
Less: End of FY13 Reserves Not for Risk	
Reserves Available for Risk	

Sp	olit	
Power	Trans	Total
693	579	1,272
511	120	631
182	459	641
•		

#### **BPA Financial Reserves FY 1989 - FY 2013**



#### Reserves Breakout FY 2012 - FY 2013

Historic Agency Re	eserves (\$ Millions	)
Reserves For Risk (A)		,
	2012	2013
Power	236	182
Trans	468	459
Total	704	641
Reserves Not For Risk (B)		2042
	2012	2013
Power	193	511
Trans	125	120
Total	318	631
Agency Reserves (A+B)		
	2012	2013
Power	429	693
Trans	593	579
Total	1,022	1,272

# Slice Reporting Composite Cost Pool Review Forecast of Annual Slice True-Up Adjustment

Craig Larson
Public Utilities Specialist

# **Q4 Forecast of FY 2013 Slice True-Up Adjustment**

	FY 2013 Forecast
	\$ in thousands
February 5, 2013	(\$6,716)
First Quarter Business Review	
April 30, 2013	(\$7,795)
Second Quarter Business Review	
July 30, 2013	(\$18,549)
Third Quarter Business Review	
November 5, 2013	(\$31,302)
Fourth Quarter Business Review	
Actual Slice True-Up Adjustment	
Charge/Credit	
(negative amount = credit on bill)	

# Summary of Differences From Q4 Forecast to FY 2013 (BP-12)

#		Composite Cost Pool True- Up Table Reference	Q4 – FY 13 \$ in thousands
1	Total Expenses	Row 118	(\$104,668)
2	Total Revenue Credits	Rows 137 + 146	\$4,267
3	Minimum Required Net Revenue	Row 156	(\$3,612)
4	TOTAL Composite Cost Pool (1 - 2 + 3) (\$104.668M) - \$4.267M + (\$3.612M) = (\$112.547M)	Row 158	(\$112,547)
5	TOTAL in line 4 divided by <u>0.9655308</u> sum of TOCAs (\$112.547M) / <u>(0.9655308</u> ) = (\$116.565M)	Row 163	(\$116,565)
6	Q4 Forecast of FY 13 True-up Adjustment 26.85407 percent of Total in line 5 .2685407 * (\$116.565M) = (\$31.302M)	Row 164	(\$31,302)

# Lower Level Differences From Q4 Forecast to FY 2013 (BP-12)

#	Line Item of Values Changed Over \$5M	Composite Cost Pool True-Up Table Reference	Rate	- FY 2013 e Case (\$ in ousands)
1	Columbia Generating Station	Row 4	\$	(15,879)
2	Bureau of Reclamation	Row 5	\$	7,225
3	Corps of Engineers	Row 6	\$	(7,604)
4	Trojan Decommissioning	Row 15	\$	(27,985)
5	Gross Other Power Purchases	Row 21	\$	12,399
6	Renewables R&D	Row 33	\$	(5,939)
7	Renewables (excludes KIII)	Row 35	\$	(6,875)
8	Conservation Acquisition	Row 40	\$	(5,556)
9	Energy Efficiency Revenues	Row 42	\$	(6,132)
10	Power R&D	Row 63	\$	6,186
11	WNP-1 DEBT SVC	Row 96	\$	(14,441)
12	WNP-3 DEBT SVC	Row 97	\$	(5,080)
13	Amortization	Row 109	\$	6,052
14	Net Interest Expense	Row 113	\$	(15,945)
15	Generation Inputs	Row 121	\$	12,611
16	4(h)(10)(c) credit	Row 123	\$	(11,754)
17	Energy Efficiency Revenues	Row 125	\$	(5,808)
18	Non-Federal Int. Exp. (prepay)	Row 152a	\$	(12,750)
19	Prepayment Credits	Row 152b	\$	7,653

# **Contra-Expense and Reinvestments of Green Energy Premiums**

Summary of Contra Expense (carry over fro	m Fiscal Y	<u>′e</u>	<u>ar 2</u>	2012) and r	e	inves	tments
		(\$000)					
Description on Composite Cost Pool True-Up Table	Reference - Composite Cost Pool True-Up Table		ļ	Rate Period			ATE CASE FY2013
Contra Expense - Final Rate Case estimate of Green Energy Premium revenues remaining for reinvestment at the end of FY 2011	Row 34		\$	(5,249)		\$	(2,625)
Contra Expense - Actual final amount of Green Energy Premium revenues remaining for reinvestment at the end of FY 2011 Note 1	Row 34		\$	(6,485)		\$	(3,243)
Reinvestment Totals from FY 2012	Row 34		<u>\$</u>	2,692			
Remaining Contra Expense in FY 2013 (carry over from FY2012)	Row 34		\$	(3,793)			
Actual Projects			Act	uals FY2013		Fore FY20	cast for 113
Eligible Reinvestments in 2013						į	
SUBTOTAL - Power R&D - Other eligible projects	Row 63		\$	878		\$	868
Power R&D - Smart Grid @ 75% of actuals Note 2	Row 63		\$	1,153		\$	1,275
Operations Planning - WIT	Row 60		\$	538		\$	646
Reinvestment Totals for fiscal year 2013			\$	2,570		\$	2,789
Contra Expense to date for Fiscal year 2013			\$	(2,570)			
Note 1: The Actual Contra Expense is limited to Actual reinvestments							
Note 2: This is 75% of the total amount							

# **Composite Cost Pool Interest Credit and Prepay Offset Credit**

	Allocation of Interest Earned on the Bonne	ville Fund	
	(\$ in thousands)		
		Q3 2013	Final EOY 2013
1	Reserves Prior to FY 2002	570,255	570,255
2	Adjustments for pre-2002 Items		
3	Reserves for Composite Cost Pool (Line 1 + Line 2)	570,255	570,255
4	Composite Interest Rate	2.24%	2.25%
5	Composite Interest Credit	(12,800)	(12,835)
6	Power Offset Credit	(6,415)	(6,467)
7	Total Interest Credit for Power Services	(16,620)	(15,444)
8	Non-Slice Interest Credit (Line 7 - (Line 5+6))	2,595	3,859

# **Net Interest Expense in Slice True-Up Forecast**

		\$ in thousands	\$ in thousands
		2013 Rate Case	<u>Actual 2013</u>
•	Federal Appropriation	\$222,715	\$218,164
•	Capitalization Adjustment	(\$45,937)	(\$45,937)
•	Borrowings from US Treasury	\$ 75,015	\$ 55,698
•	Prepay Interest Expense	<u>\$ 0</u>	<u>\$ 7,653</u>
•	Interest Expense	\$251,793	\$235,578
•	AFUDC	(\$13,592)	( \$10,674)
•	Interest Income (composite)	(\$17,871)	(\$12,835)
•	Prepay Offset Credit	<u>\$ (0)</u>	( <u>\$ 6,467)</u>
•	Total Net Interest Expense	\$220,330	\$ 205,601 rounding

 Note 1: \$220,330 is the combination of \$221,546 on Row 113 and (\$1,216) on Row 114 in the Composite Cost Pool True-Up Table FY 2013 Rate Case Column. To calculate the Net Interest Expense for the Annual Slice True-Up Adjustment, the non-slice interest income is excluded.

# FY 2013 End of Year Capital Financial Results & FY 2014 SOY Budget

Report ID: 0027FY13 **BPA Statement of Capital Expenditures** Run Date/Run Time: October 21, 2013/ 04:51 Requesting BL: CORPORATE BUSINESS UNIT FYTD Through the Month Ended September 30, 2013 Data Source: EPM Data Warehouse % of Year Elapsed = Unit of Measure: \$Thousands **Preliminary Unaudited** В Е FY 2013 FY 2013 FY 2013 SOY Current EOY Actuals: Actuals / Actuals / Budget **Forecast FYTD** SOY Budget **Forecast Transmission Business Unit** \$ 87,006 \$ 160,391 \$ 84,090 54% 103% MAIN GRID 23,103 12,641 13,791 60% 109% AREA & CUSTOMER SERVICE 227,542 SYSTEM REPLACEMENTS 214,807 190,294 84% 89% 204,325 196,816 77% 96% **UPGRADES & ADDITIONS** 255,246 **ENVIRONMENT CAPITAL** 6,483 8,110 7.791 120% 96% **PFIA** MISC. PFIA PROJECTS 12,520 10,616 10.151 81% 96% 6 GENERATOR INTERCONNECTION 38,862 (240)(2,446)-6% 1020% SPECTRUM RELOCATION 1,296 914 1,044 81% 114% 1,259 0% 0% CAPITAL INDIRECT LAPSE FACTOR (72,273)0% 0% 10 653,169 535,263 505,706 77% 94% **TOTAL Transmission Business Unit** 11 **Power Business Unit** 67,539 105% 95% **BUREAU OF RECLAMATION** 64,546 71,179 12 144,774 80% CORPS OF ENGINEERS 172,635 138,886 96% 13 97% **GENERATION CONSERVATION** 82,170 81,000 78,376 95% 14 5,885 7,000 5,881 100% POWER INFORMATION TECHNOLOGY 84% 15 FISH & WILDLIFE 67,145 60,002 52.120 78% 87% 16 (12,417)0% 0% 17 LAPSE FACTOR 379,964 363,955 342.802 90% **TOTAL Power Business Unit** 94% 18 **Corporate Business Unit** 48,649 34,274 34,577 71% 101% CORPORATE BUSINESS UNIT 19 **TOTAL Corporate Business Unit** 48,649 34,274 34,577 71% 101% 20 \$ 1,081,782 \$ \$ 883,086 82% 933,493 95% 21 **TOTAL BPA Capital Expenditures** 

Report ID: 0027FY14 **BPA Statement of Capital Expenditures** Run Date/Run Time: October 23, 2013/ 10:43 Requesting BL: CORPORATE BUSINESS UNIT FY2014 Start of Year Budget Data Source: EPM Data Warehouse Unit of Measure: \$Thousands FY 2014 SOY Budget **Transmission Business Unit** \$ 131,305 MAIN GRID 27,133 AREA & CUSTOMER SERVICE SYSTEM REPLACEMENTS 233,973 **UPGRADES & ADDITIONS** 256,548 **ENVIRONMENT CAPITAL** 6,804 **PFIA** MISC. PFIA PROJECTS 4,802 GENERATOR INTERCONNECTION 10,118 200 SPECTRUM RELOCATION CAPITAL INDIRECT LAPSE FACTOR (33,158)637,724 **TOTAL Transmission Business Unit Power Business Unit BUREAU OF RECLAMATION** 78,181 **CORPS OF ENGINEERS** 159,461 **GENERATION CONSERVATION** 75,200 9,726 POWER INFORMATION TECHNOLOGY

_			
Corp	orate	Business	Unit

FISH & WILDLIFE

LAPSE FACTOR

TOTAL Power Business Unit

1

2

3

4

5

6

7

8

9

10

11

12

13 14

15

16

17

18

19 20

21

9	CORPORATE BUSINESS UNIT	30,060
0	TOTAL Corporate Business Unit	30,060

TOTAL BPA Capital Expenditures \$ 1,038,745

60,275

(11,882)

370,961

Updated 11/4

# **Capital Project Status Report**

Dennis Naef Asset Strategist

Major Capital Projects <sup>1</sup> - End-of-Projects	oject Target Performance								Q3 2013
					Capital				ice Date
Project	Description	Ta	irget	Fo	recast	A	ctual <sup>3</sup>	Target	Forecas
Transmission								•	•
Spacer Damper Replacement Program (FY08-12)	Replace all spring type double and triple bundle spacer-dampers on the 500 kV system.	\$	65.2	\$	46.3	\$	45.2	9/30/2012 for 95% completion	9/30/14
Sustain Steel Program Defective Damper Replacements	Replace approximately 1,700 mile of defective PPI spacer dampers.	\$30 F	4.0 to 0.0 for Y12- Y13	\$	25.6	\$	19.7	90% to 113% of workplan thru FY13	Achieve 89% of workplan
Spectrum Relocation (3G 1710-1755 MHz Project)	Vacate radio frequencies as required by P.L. 108-494.	\$	48.6	\$	40.6	\$	40.0	3/31/13	12/1/13
500 kV Spare Transformer Project	Acquire 5 spares and relocate 2 existing transformers to be used as spares. The spares will be placed strategically across the system.	\$	41.0	\$	43.0	\$	34.5	12/31/13	9/30/14
FY10 - TEAP Fleet Equipment Replacement Program	Heavy duty and specialized vehicle replacement program for FY10, FY11 and part of FY12.	\$	29.6	\$	28.0	\$	24.8	3/31/12	9/30/13
#KC SONET Phase II Spur Healing	Complete the digital microw ave and radio conversion in Oregon.	\$	18.0	\$	17.4	\$	11.3	12/31/15	12/31/15
#NC Analog Microwave Replacement	Complete the digital microw ave and radio conversion in NW Washington.	\$	13.6	\$	10.5	\$	6.2	12/31/15	12/15/14
Alvey Substation 500 kV Shunt Reactor	Add a 500 kV shunt reactor for voltage stabilization.	\$	10.9	\$	10.5	\$	3.6	4/30/12	3/9/15
NEPA - I-5 Corridor Reinforcement	Conduct NEPA study, preliminary engineering and design.	\$	45.0	\$	43.8	\$	32.4	1/31/13	12/15/14
West of McNary Reinforcement Group 2 Big Eddy - Knight	New 500 kV substation and 28 miles of 500 kV transmission line.	\$	180.0	\$	181.3	\$	145.6	Substation Energized 3/31/2013 Reactor Energized 11/30/14	Substation Energized 8/31/2015 Reactor Energized 11/30/14
Condon Wind Voltage Control	Install ring bus, transformer bank and breaker to control voltage fluctuations on the DeMoss-Fossil-Maupin 69kV line.	\$	9.4	\$	14.3	\$	14.1	5/31/11	9/30/13
DC RAS Upgrade	Replace the DC RAS controllers at Celilo with upgraded units at the Ross and Munro control centers.	ľ	11.8	\$	11.3	\$	9.8	11/30/13	11/30/13
Synchrophasor Project	5-year effort to acquire, install, test, and implement synchronized Wide Area Measurement (WAM) and control technology at BPA.	\$	32.5	\$	30.7	\$	24.5	Phase I complete by 9/30/13.	Phase I complete by 9/30/13.
Wood Pole Line Sustain Program FY10 - FY13	Implement a stable, sustained w ood pole replacement program. The four year plan includes cumulative cost and w ork plan completion targets.	to \$	108.6 5135.8 FY10 - Y13		128.2	\$	119.2	90% to 100% of workplan and 420 miles	<80% of workplan and 278 miles

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<sup>&</sup>lt;sup>1</sup> Includes capital projects authorized at the agency level since August 2007

<sup>&</sup>lt;sup>2</sup>Direct capital costs exclude AFUDC and overheads

<sup>&</sup>lt;sup>3</sup>Actual costs are project costs to date.

<sup>&</sup>lt;sup>4</sup>Contracts have not been awarded - cost estimates are confidential

Major Capital Projects <sup>1</sup> - End-of-Pr	oject Target Performance						(	Q3 2013	
		Dire	ect (	Capital			In-Service Date		
Project	Description	Target	Fo	recast	A	ctual <sup>3</sup>	Target	Forecast	
Transmission - continued									
Steel Lines Sustain Program FY11 - FY13	Implement a stable, sustained steel line replacement program. The four year plan includes cumulative cost and work plan completion targets.	\$22.4 to \$28.0 for FY11 - FY13	\$	32.1	\$	25.8	Achieve 90% to 150% of workplan	Forecast to achieve 102% of workplan	
System Protection and Control (SPC) Sustain Program FY11 - FY13	Implement a stable, sustained SPC replacement program. The four year plan includes cumulative cost and work plan completion targets.	\$37.7 to \$47.2 for FY11-	\$	27.1	\$	17.1	Achieve 90% to 100% of	42%	
Control Replacement California - Oregon Intertie (COI) Series Capacitors	Replace protection and control systems for the series capacitor banks. Target includes 20% other owner's share.	\$ 15.7	\$	12.0	\$	10.7	3/30/14	2/11/14	
Ross - Schultz Fiber Replacement	Replace the obsolete and limited 36 strand fiber with standard 72 strand fiber.	\$ 34.0	\$	33.7	\$	2.0	9/15/17	9/15/17	
#DC Microwave Analog Spur Replacement	Complete the digital microw ave and radio conversion in Northeast Washington.	\$ 39.5	\$	31.6	\$	11.9	8/30/17	7/3/17	
Central Oregon Transformer Addition	Install a second 500/230 kV transformer bank at BPA's Ponderosa substation.	\$ 29.1	\$	35.0	\$	34.8	10/31/13	3/15/13	
Central Ferry to Lower Monumental (Little Goose Area Reinforcement)	Construct a 38 mile 500 kV transmission line between Central Ferry and Low er Monumental substations.	\$ 90.0	\$	90.0	\$	19.7	12/31/13	2/27/15	
Celilo Mercury Containment and Abatement	Contain and abate the mercury contamination at the Celilo Converter Station.	\$ 10.8	\$	11.7	\$	8.5	5/31/13	9/30/13	
Central Ferry Generation Interconnection	Generation interconnection request. Construction of a new 500/230 kV substation and related fiber communications w ork.	\$ 98.4	\$	77.0	\$	77.0	5/30/12	7/15/13	
Rights-of-Way Access Roads and Land Rights Acquisition Program FY13 to FY15	Implement a stable, sustained ROW program. The three year plan includes cumulative cost and work plan completion targets.	At least \$9.4 for FY13	\$	17.8	\$	9.0	Achieve 100% of workplan	90% of workplan	
Summit Ridge Wind Generation Interconnection	Generation interconnection request. Install a new 230 kV ring bus to loop in the Big Eddy - Maupin 230 kV line.	\$ 11.3	\$	11.3	\$	-	9/1/13	9/1/13	
P25 Two-Way Mobile Radio Upgrade	Replace and upgrade the mobile two-way radio system to P25 technology.	\$ 64.5	\$	61.3	\$	1.1	9/30/17	9/30/17	
Switchgear Replacement for Fault Duty FY12	Replace under-rated switchgear identified in annual screening process.	\$ 14.9	\$	14.7	\$	7.9	12/31/14	9/26/14	
Pacific DC Intertie Upgrade - Station Work	Modernize the Celilo converter terminal and upgrade capacity from 3100 MW to 3220 MW for north to south power flow with a future upgrade	\$ 275.8	Ļ	269.2	\$	26.1	12/20/15	12/20/15	
Pacific DC Intertie Upgrade - Line Work	path to 3800 MW.	\$ 40.0	\$	28.1	\$	2.4	10/31/17	10/31/17	
Puget Sound Area Northern Intertie (PSANI)  Memorandum of Agreement	Install a 500/230 kV transformer bank addition at Raver Substation.	\$ 56.4	\$	56.4	\$	0.1	9/30/16	7/14/16	
Horse Butte Wind Interconnection	Interconnect UAMPS wind project.	\$ 10.2	\$	8.2	\$	7.0	11/30/12	11/11/13	

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<sup>4</sup>Contracts have not been awarded - cost estimates are confidential

vlajor Capital Projects <sup>1</sup> - End-of-Project Target Performance							Q3 2013			
		Direct Capital \$M <sup>2</sup>					2	In-Service Date		
Project	Description	Ta	arget	Fo	recast	A	ctual <sup>3</sup>	Target	Forecast	
Transmission - continued										
MT to WA Transmission System Upgrade - NEPA	NEPA and preliminary engineering and design for the former CUP West project.	\$	7.2	\$	7.0	\$	0.5	3/31/15	3/30/15	
Lower Valley NEPA (Hooper Springs)	NEPA and preliminary engineering and design work for the Lower Valley Area Reinforcement project.	\$	19.1	\$	18.2	\$	15.8	11/1/13	2/1/14	
AC Substations Sustain Program FY13-15	Implement a stable AC substation equipment replacement program. The 3 year plan includes cumulative cost and scope/schedule targets.		4.95 FY13	\$	9.0	\$	3.2	Deliver 100% of workplan	Deliver 100% of workplan	
PSC/Telecom Sustain Program FY13-15	Implement a stable PSC/Telecom equipment replacement program. The 3 year plan includes cumulative cost and scope/schedule targets.	1 7	7.7 FY13	\$	6.5	\$	1.7	Deliver 100% of workplan	Deliver 86% of workplan	
#JC Microwave Upgrade	Complete the digital conversion for the upper part of the #JC communications ring.	\$	13.5	\$	13.5	\$	0.8	9/1/18	9/1/18	
Operational Multi-Gigabit Ethernet Transport (OMET)	Communications upgrade and replacement project to ensure adequate capacity and compatibility for emerging monitoring and control equipment.	\$	43.5	\$	43.5	\$	0.8	3/30/17	3/30/17	
McNary Substation - Additional 500 kV Transformer	Install an additional transformer bank to handle increased loading.	\$	20.2	\$	20.2	\$	-	5/30/17	5/30/17	
Federal Hydro										
Grand Coulee and Hungry Horse SCADA Replacement	Replace SCADA systems at Grand Coulee and Hungry Horse.	\$	46.8	\$	46.8	\$	34.9	9/30/15	8/31/16	
Grand Coulee Exciter Replacement	Replace 6 original excitation units in Powerhouse 3.	\$	23.0	\$	20.3	\$	20.3	11/30/13	5/18/13	
Grand Coulee Left Powerhouse Transformer Replacement	Replace transformer banks K1, K5, K7, K8 and purchase one spare transformer bank.	\$	15.7	\$	15.7	\$	11.0	10/31/14	12/31/14	
Grand Coulee 500kV Switchyard Relay Replacement	Replace the protective relays and microw ave transfer trip between the third power plant and 500kV switchyard and between the 230kV and	\$	7.6	\$	7.6	\$	4.2	9/30/14	9/30/14	
Grand Coulee Pre Overhaul - Winding Replacement G19, G20	Replace the stator core and windings on units G19 and G20.	1	N/A <sup>4</sup>		N/A <sup>4</sup>	\$	0.7	5/31/13	4/29/18	
Grand Coulee Pre Overhaul - High Voltage Cable Replace.	Install overhead, high-voltage cables to transfer pow er from the third pow er plant.	\$	46.7	\$	36.7	\$	34.9	12/31/12	12/31/12	
Grand Coulee - Keys Pump Generating Station - Reliability	Replacements and upgrades to maintain the current capability of the station.	\$	61.4	\$	61.4	\$	-	9/30/21	9/30/21	
Chief Joseph Turbine Runner Replacements Units 1 - 16	Replace the turbine runners and rehabilitate the turbines on units 1 - 16.	\$	166.0	\$	166.0	\$	85.4	9/30/17	9/30/17	
Chief Joseph Exciter Replacement	Replace excitation units (17 to 27) that have reached the end of their useful lives.	\$	9.2	\$	9.2	\$	0.6	12/30/15	12/30/15	

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<sup>&</sup>lt;sup>4</sup>Contracts have not been awarded - cost estimates are confidential

Major Capital Projects <sup>1</sup> - End-of-Pr	oject Target Performance							(	Q3 2010
	Description		Dir	ect	Capital	In-Service Date			
Project		Т	arget	Fo	recast	A	ctual <sup>3</sup>	Target	Forecas
Federal Hydro - continued									
Chief Joseph Governor Replacement	Upgrade the 27 governors with digital controls and replace associated equipment.	\$	10.7	\$	10.7	\$	0.4	8/19/17	8/19/17
The Dalles Powerhouse Governor Upgrade	Upgrade of the governors with digital controls and replacement of associated components.	\$	21.8	\$	21.8	\$	10.5	9/30/14	9/30/14
McNary Main Unit 1-4, 7-12 Stator Winding Replacement	Replace stator windings that are over 50 years old.	\$	80.0	\$	80.0	\$	53.1	12/31/14	4/1/15
McNary Governor Replacement	Upgrade the 14 governors in the McNary pow erhouse w ith digital controls.	\$	9.3	\$	9.3	\$	0.1	1/29/18	1/29/18
Bonneville PH2 Station Services Replacement	Upgrade Powerhouse 2 station service with new transformers and switchgear.	\$	12.1	\$	10.8	\$	10.8	5/31/13	3/28/13
John Day Governor Upgrade	Upgrade of the governors with digital controls and replacement of associated components.		N/A <sup>4</sup>		N/A <sup>4</sup>	\$	1.5	10/23/14	10/26/10
Ice Harbor Turbine Runner Replacement	Replace the poor condition turbine runners in units 1, 2 & 3 and incorporate a more fish-friendly design.	\$	97.0	\$	97.0	\$	9.5	10/1/18	10/1/18
Lower Snake Exciter Replacement	Replace 6 exciters at Little Goose, 3 at Low er Monumental and 3 at Low er Granite.	\$	12.9	\$	12.9	\$	9.4	2/27/13	7/31/13
Hungry Horse Station Service Replacement	Replace station service switchgear distribution board/feeder cables and upgrade relay protection/metering.	\$	8.1	\$	8.1	\$	0.4	1/31/15	1/31/15
Hills Creek Powerhouse Turbine and Unit Rehabilitation	Replace turbine runners and generator windings on units 1 and 2 at Hills Creek.	\$	24.1	\$	24.1	\$	3.5	8/12/14	3/31/15
Black Canyon Third Generating Unit	Add a third generating unit at Black Canyon. The capacity of the unit will be between 10 and 15 MW.		N/A <sup>4</sup>		N/A <sup>4</sup>	\$	4.2	12/31/14	12/31/10
Palisades Turbine Rehabilitation and Runner Replacement	Replace the turbine runners and rehabilitate the turbines on the four Palisades units.	\$	28.8	\$	28.8	\$	12.6	5/31/16	5/31/16
Dexter Spillway Gate Rehabilitation	Rebuild the seven tainter spillw ay gates at Dexter.	\$	18.0	\$	18.0	\$	15.9	9/15/13	9/15/13
Big Cliff Spillway Gate Rehabilitation	Rebuild the three tainter spillw ay gates at Big Cliff.	\$	11.0	\$	11.0	\$	8.1	12/30/13	12/30/13
IT									
Desktop Modernization Project	Deploy Windows 7, Office 2010 and end-user devices.	\$	9.1	\$	8.6	\$	6.6	3/31/14	3/31/14
IT Virtualization and Consolidation Project (IVC)	Replace and modernize server infrastructure for non-critical business systems.	\$	21.8	\$	21.3	\$	11.4	9/30/14	10/31/14
Facilities									
Eastside Alternate Operating Facility	Spokane-area facility for redundant transmission and power scheduling functions and alarm monitoring.	\$	17.5	\$	20.2	\$	2.3	3/31/14	7/31/14
Tri Cities Maintenance Headquarters and Franklin Yard	Construct Tri-Cities maintenance HQ, heat line for spare transformers and a spare parts yard at Franklin.	\$	14.2	\$	14.2	\$	0.8	12/31/13	12/31/14

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<sup>&</sup>lt;sup>3</sup>Actual costs are project costs to date.

<sup>&</sup>lt;sup>4</sup>Contracts have not been awarded - cost estimates are confidential

# **Capital Investment Prioritization**

Mike DeWolf Asset Manager

# **Background**

- BPA and its FCRPS partners face growing investment requirements to replace and modernize aging infrastructure, add capacity to meet loads and integrate new generating resources, and fulfill regional commitments for energy efficiency and fish and wildlife restoration
- At the same time, BPA's access to low cost sources of capital is constrained
- BPA does not have a robust, agency-wide process in place to make trade-offs and ensure that limited capital is deployed optimally. A systematic, value-based method for prioritizing capital investments across business units is a leading practice among top performing utilities
- During the 2012 Capital Investment Review, BPA proposed to develop a method for prioritizing investments
- Since then, BPA has designed and is now implementing the BPA-wide prioritization process
- The purpose today: update you on our progress

#### Goals

#### Create an agency-level process that:

- Furthers the agency's strategic priorities/objectives
- Provides a "level playing field" for projects with different risk/cost/benefit characteristics from various asset categories
- Optimizes the agency's investment portfolio within capital, labor, rate, and other constraints
- Ensures decision-making is risk-informed and supported by thorough analysis
- Provides transparency both internally and externally
- Enables efficient, timely decision making
- Enables BPA to track the performance and measure the realized value from investments

The methodology and process will be directed at maximizing the long-term operational and economic value of assets.

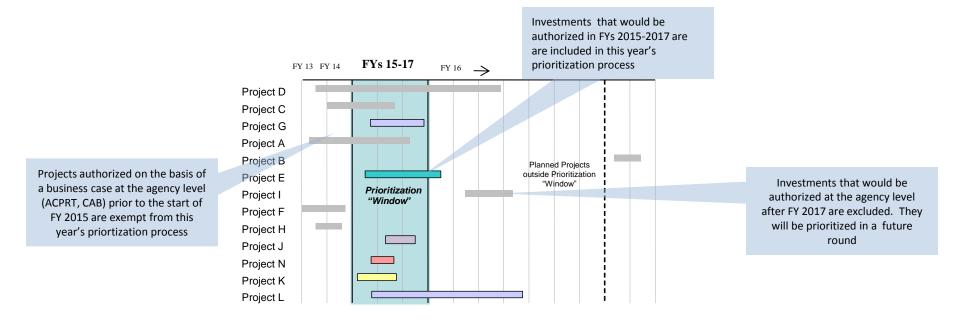
BPA's Capital Allocation Board (CAB) will serve as the executive steering team for this process.

(These goals were adopted in 2012 and remain unchanged)

### Which investments are covered by this year's process?

#### Investments are included if they:

- Fall within the Transmission, Federal Hydro, IT, or Facilities asset categories (Energy Efficiency and Fish and Wildlife are exempt from this year's process)
- Meet the definition of Expansion or Non-Core Sustain investment ("core sustain" investments are exempted see next slide)
- Entail upfront investment costs of \$3 million or more (upfront capital and upfront expense combined; smaller projects or groups of projects may be submitted at the discretion of the asset category)
- Not authorized by October 1, 2014 ("authorized" means proposed and approved on the basis of a business case at the agency level (ACPRT, CAB))



**Note:** "Investment" includes upfront capital expenditures and upfront expense expenditures to plan, design, and build or acquire equipment, facilities, or software applications

### Investments covered by the new prioritization process include all expansion-type investments

How "core sustain" and "expansion" are defined

Prioritized through asset strategies

**Prioritized through new process** 

#### "Core" Sustain Investment

Investment the primary purpose of which is to replace existing assets in order to maintain system performance and capability

#### **Expansion and "Non-Core" Sustain Investment**

Investment that "grows" the asset base, i.e., adds capacity or new capabilities, or that increases operational output or productivity.

Also includes sustain investment that is "non-core"

Compliance – 3 years Investment must occur in next 3-years in order to comply with contract, order, or directive Policy Commitment – 3 Years Investment must occur next 3 years to fulfill commitments made by the agency

Discretionary -3 years Investment that may be valuable, but can be deferred

**Funded first** 

Funded with remaining capital that the agency has budgeted

Core sustain investments are exempt from the process. The process covers expansion and "non -core" sustain investments only

"Core sustain" investments are prioritized through condition-based risk assessments, in which the highest priority is assigned to the most critical equipment and facilities at greatest risk of failure, obsolescence, safety issue, or other asset risk factors. Included are projects necessary to make core sustain investment viable, such as access roads that enable line replacements. Prioritization of core sustain investments occur within the asset strategies that are developed by each asset category and approved by the CAB.

- For Transmission, **core sustain** investments include replacements when the replacement's primary purpose is to manage failure, obsolescence, safety, environmental, and related risks. When the primary purpose of the investment is to upgrade or add capacity, flexibility, or other new capabilities, then the investments is classified as **expansion/non-core sustain**
- For Federal Hydro, **core sustain** investments include replacements when the replacement's primary purpose is to manage failure, obsolescence, environmental, or safety risks. When the primary purpose of the investment is to improve generating efficiency or add generating capability, then the investment is classified as **expansion/non-core sustain**
- For IT, core sustain investments include replacements of end-of-life cycle, failing, or technologically obsolete hardware. All other investment, including all software applications and application upgrades, are classified as expansion/non-core sustain
- For Facilities, **core sustain** investments include replacements when the primary purpose is to manage failure risks and functional obsolescence or to mitigate environmental, health and safety risks. When the primary purpose of an investment is to upgrade or add capacity, flexibility, or other new capabilities, then the investment is classified as **expansion/non-core sustain**.

Energy Efficiency capital spending that implements the power plan and Fish and Wildlife capital investments that implement the BIOp and current fish accords are generally prioritized by entities outside the FCRPS. For purposes of the 2013 process at least, these investments will be treated as if they were "core sustain" investments.

#### How are the classifications defined?

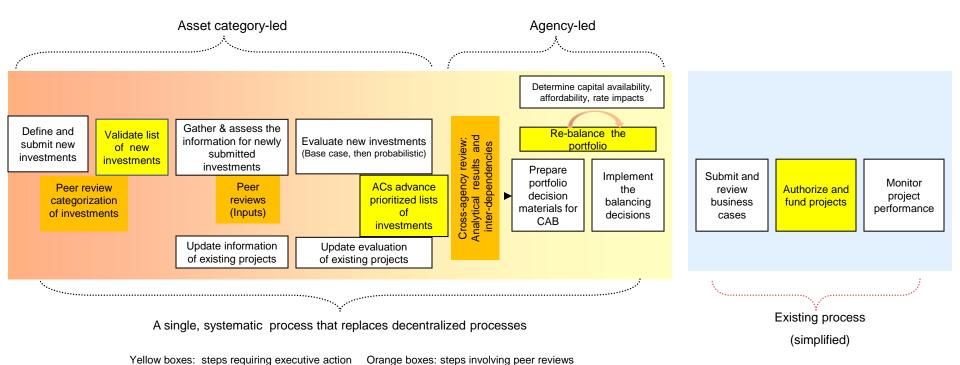
#### **Expansion and "Non-Core" Sustain Investment**

Investment that "grows" the asset base, i.e., adds capacity or new capabilities, or that increases operational output or productivity.

	Compliance	Policy Commitment	Discretionary
	Investment must be authorized during the 3-year prioritization window in order to comply with contracts, orders, directives	Investment must be authorized during 3-year window to fulfill commitments made by the agency	May be preferable that investment start during the 3-year window, but it can be deferred
Driver of investment	Investments in the Compliance classification are essential to the agency's ability to comply with a signed contract, regulatory directive, or an executive or judicial branch order or directive. The contract, order or directive must compel BPA to make an investment failure to make the investment timely would result in a violation. To be eligible, the investment must be authorized and work must begin by no later than the end of the 3-year prioritization window.	Investments in this category are essential to meeting commitments made by the agency. The commitments require that BPA invest to meet tariff provisions, NOS policy commitments, and load service obligations. The commitments require that investments be authorized and that investment begins by no later than the end of the 3-year window. A failure to make the investment during the window would result in serious reputational risks and legal risks	Expansion and "non-core" sustain investments that may be highly valuable, but that may be deferred beyond the 3-year prioritization window  Includes economic opportunity investments to reduce operating costs, enhance revenue, improve internal efficiency  Also includes "Compliance" and "Policy Commitment" investments if the investment can be deferred to year 4 or later. (Investments can move from the discretionary category to the categories at left over time)
Discretion on whether and how to invest?	Little or no discretion on whether an investment needs to be made. The purpose and nature of the investment are largely mandated	Little or no discretion on whether an investment needs to be made, although changes in customer needs, market conditions, and other external factors can cause shifts in the composition and timing of the investment. Discretion is normally available on investment alternatives	Discretion on whether to invest and on investment alternatives
Discretion on timing of investment?	Little or no discretion on timing of the investment. Often the investment is mandated by a certain date. Investment must be authorized and work must begin by no later than the end of the 3-year prioritization window in order to comply	Some discretion on timing of the investment. Timeline for completion is driven by agency commitments – must begin during the 3-year window to avoid reputational and legal risks	Yes
Examples	LGIA agreement, if the agreement requires investment during the 3-year prioritization window Investment in new security equipment to meet NERC CIP, if investment is required during the 3 years	Investment to meet load service obligations, if necessary during the 3-year window  Network open season-driven investment, if necessary during the 3 years Information systems to meet regional dialogue commitments  SLICE application	New or expanded maintenance headquarters or new office building Addition of a hydro generation turbine, turbine runner replacements when efficiency is a primary driver  New IT applications driven by business process efficiencies such as TAS, EE Central  Acceleration of a transmission sustain investment program
Treatment in prioritization process	For these investments, the strategic fit test is deemed to be met. While capital costs are estimated and vetted, the economic value test is not required, but may be useful in choosing the best alternative. Investments in this category are not priority ranked based on economic value. Like Core Sustain, these investments are funded ahead of Policy Commitment and Discretionary investments.	Strategic fit test is deemed to be met. Economic value test applies. These investments are priority ranked along with discretionary investments based on economic value. They are flagged, however, and the CAB will likely fund these investments ahead of discretionary investments	Strategic fit and economic value tests apply. These investments are priority ranked along with Policy Commitment investments based on economic value. They are funded after investments in the Core Sustain, Compliance, and Policy Commitment classifications

For purposes of the 2013 process, "Investment must be authorized during the 3-year window" means the project must be proposed and approved on the basis of a business case at the agency level (ACPRT, CAB) during the FY 2015-2017 period. Projects authorized before October 1, 2014 are exempt from the 2013 process.

### **Sequence of Steps**



### Investments are being evaluated using three "tests"

#### 1. Strategic fit

- An advisory assessment of each investment's usefulness in delivering on the agency's strategic priorities
- This test is applied to Discretionary investments only; the test is assumed to be met for Compliance and Policy Commitment projects

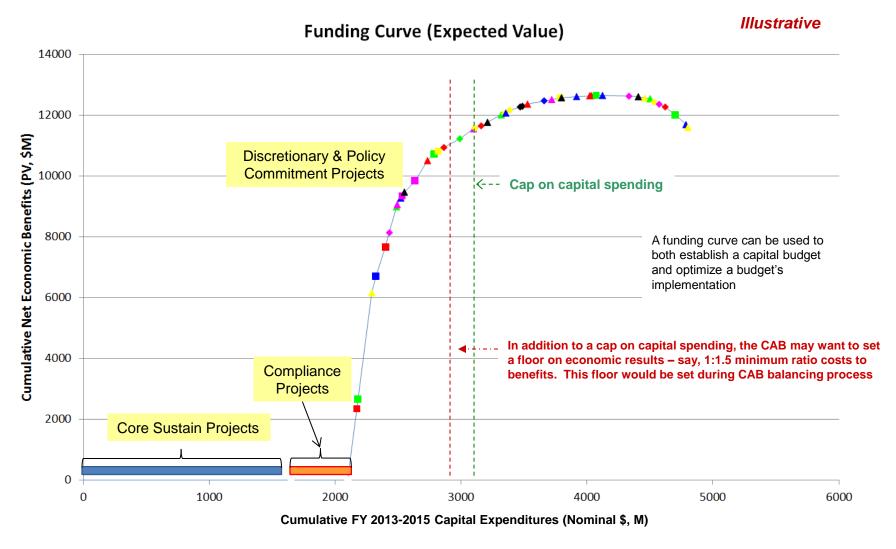
#### 2. Value contribution

- Investment benefits and costs are evaluated using two principal metrics:
  - "Net Economic Benefits Ratio" (applies to Policy Commitment and to Discretionary investments, but not to Compliance projects)
  - 2. "NPV BPA Cash Flows" (applies to all three types of investments)
- Policy Commitment and Discretionary investments will be ranked initially on the basis of the first metric, Net Economic Benefits Ratio

#### 3. Feasibility

Evaluates the affordability, revenue requirement impact, and execution risks of investment portfolios

### Capital is reserved for core sustain and compliance projects Remaining projects are prioritized and compete for capital based on their value



**Deliverables for 2014 CIR** 

#### We're on track

The purpose, scope, goals, roles, and overall mechanics of the process have been designed

and communicated, and implementation is well underway

Analytical methodology has been designed and is now being implemented

- Metrics, modeling approach defined
- Input templates and models developed, tested, and deployed
- Assessment process has been wrapped up (cost and benefit information has been collected, validated and inputted)
- Evaluation process (modeling) is underway, with results being validated and calibrated
- On a parallel track, analytics to determine "affordability cap" for capital spending are nearing completion

Next up: Assemble portfolio materials and present for CAB review (Late Nov – early Jan)

Then: Public comment process - Capital Investment Review (mid Feb – Mar)

And then: Updated portfolio that takes stakeholder comments into account (April – May)

- A summary of the process and analytical methodology that we used
- A synopsis of the investments considered by the CAB through this process
- The estimated range of capital costs and net economic benefits for the investments, with any unquantified cost and benefit drivers identified
- The funding curve and other, select decision support materials considered by the CAB
- Logic behind the cap on total capital spend that is used
- A summary of strategic context and the trade-offs considered by the CAB when selecting the portfolio
- Final criteria for delineating core sustain investment from expansion and non-core sustain investment
- Final criteria for delineating compliance from policy commitment from discretionary investment

Separately, we will provide updated 10-year asset strategies for core-sustain

(Essentially unchanged from previous QBR presentations)

### **Grand Coulee Dam Third Powerplant Overhaul**

Mike Alder
Program Manager (Operations & Maintenance)



#### **Reasons for Overhaul**

- Importance of a reliable Third Powerplant (TPP) to the region
- TPP Conditions are Worsening
  - Shear Pin failures (operating ring wear)
  - Shaft Seal failures
  - Increased Water Leakage
  - Increasing unscheduled outages
- Extension of Overall Plant Life
  - Electrical power, controls, annunciations, protective relays
  - Unit auxiliaries (piping, valves, CO<sub>2</sub>, stator cooling water, gates)

### **TPP Overhaul Program**

#### Components:

- G22-24 Mechanical Overhaul
- G19-21 Mechanical Overhaul; Possible Uprate
- Pre-overhaul projects (9)
- B-List Team projects (112)

### **TPP Pre-Overhaul Projects**

- 500kV Overhead Lines
- Material Storage Building
- Crane Controls
- Fixed Wheel Gate Chamber Modifications
- Elevator Modernization
- Excitation Replacement
- Governor Upgrades
- K19A, K20A Transformer Replacement
- Mechanical Shaft Seals (Procurement Only)

These projects are all substantially complete

### **TPP B-List Team / Projects**

- 112 smaller projects
- Overhaul Crew (1 Sup, 4 Electricians, 4 Mechanics)
- All 30+ year old items that need to be overhauled, which were not included in the overhaul contract (air valves, water valves, governor motors, special tools, etc.)
- Assists pre-overhaul contractors and overhaul contractor

Most B-List Projects are complete; Others are in progress and on schedule

### **TPP Overhaul Program**

#### **Timeline**

Fiscal Year	G22-24	G19-21	Fiscal Year	G22-24	G19-21
2011	Procurement	Planning	2017	Overhaul Complete	Contractor Preparing for Overhaul
2012	Contractor Prepared for Overhaul	Planning	2018		Overhaul Begins
2013	Overhaul Began 3/12/13	Planning	2019		Overhaul Ongoing
2014	Overhaul Ongoing	Design	2020		Overhaul Ongoing
2015	Overhaul Ongoing	Procurement	2021		Overhaul Ongoing
2016	Overhaul Ongoing	Contractor Preparing for Overhaul	2022		Overhaul Complete

### G-22, G-23 & G-24 Overhaul Contract

- Awarded to Andritz Hydro for \$102 million
- Schedule: March 2013 June 2017
- 17 months/unit
- Components to be overhauled:
  - Wicket Gates, Bushings
  - Head-cover, Operating Ring
  - Servos
  - Lubrication Systems
  - Cooling Water Systems
  - Brake and Jack Systems
  - Wear Rings
  - Bearings
  - Shaft Seals (new mechanical seals)

### G-22, G-23 & G-24 Overhaul: Major Risks and Responses

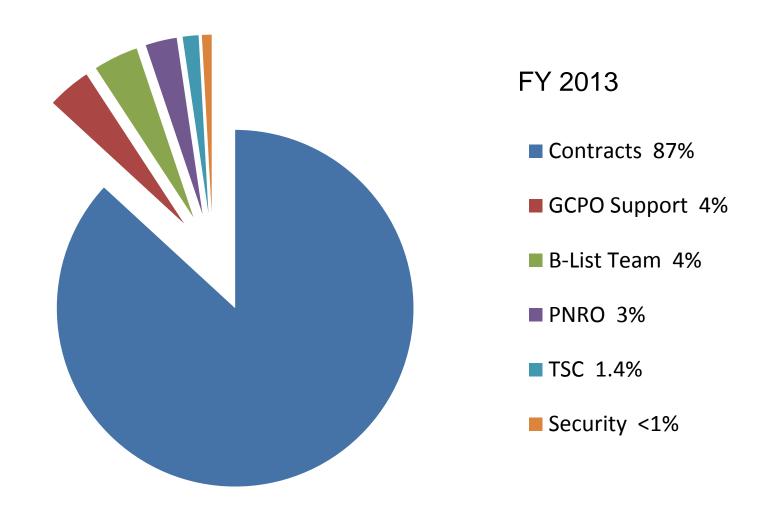
- Cracked Wicket Gates
  - Response: Procured nine new wicket gates
- Cracked Head Cover
  - Response: FEA on Headcover showed probability low
- Unknown broken parts
  - Response: Specification includes replacement parts for all long lead items
- G19-21 Forced Outage
  - Response: Plan developed to accommodate additional lay down space during the G22-24 overhaul
- Cracked Turbine
  - Response: Specification includes repair

## Third Powerplant Overhaul: Budget

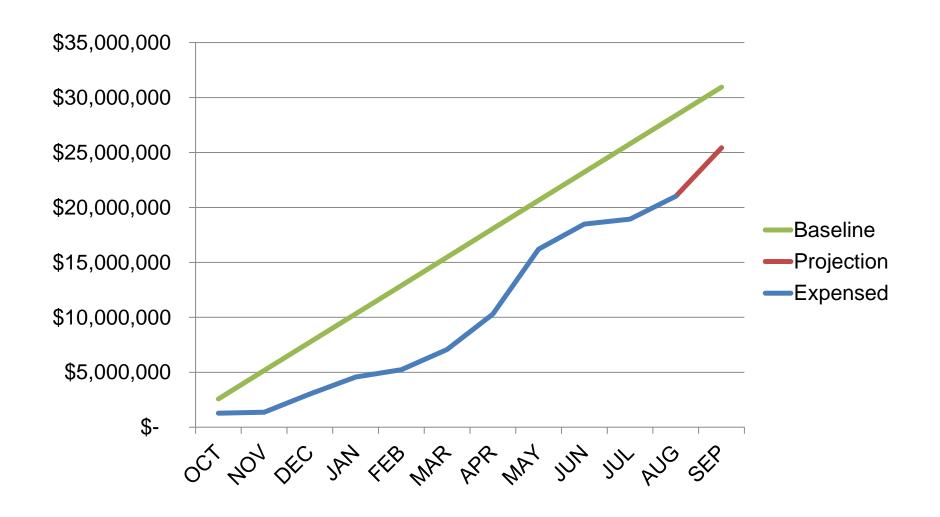
Fiscal Year	Cost
2011	\$6.1M
2012	\$12.2M
2013	\$25.4M
2014	\$29.8M
2015	\$24.1M
2016	\$22M

Fiscal Year	Cost
2017	\$30.5M
2018	\$30M
2019	\$26.7M
2020	\$22.3M
2021	\$27.0M
2022	\$17.7M

# Third Powerplant Overhaul: Budget



# G-22, G-23 & G-24 Overhaul: FY 2013 Budget

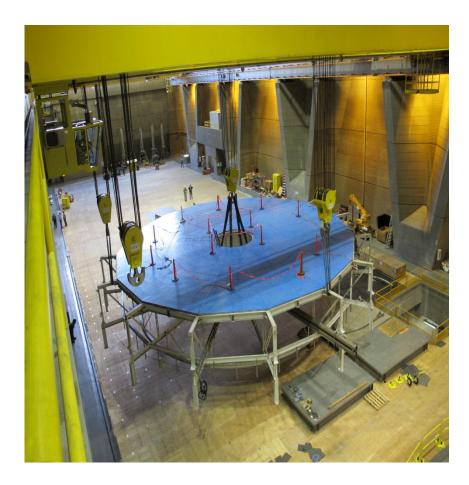


- Overhaul of G24 commenced March 12, 2013
- Contractor blasting/painting shop erected
- All pre-shutdown readings documented
- Alignment/clearance readings taken
- Generator wiring identified/tagged
- Turbine guide bearings removed
- Scaffolding built in spiral case
- Upper bracket removed
- Rotor removed

- Upper, intermediate, and lower turbine shafts removed
- Work stoppage due to contractor's non-compliance May 28, 2013 July 22, 2013
- Servos removed
- Runner crown removed
- Inner and outer head covers removed
- Containment built for blasting and painting of lower bearing bracket

- Wicket gate arms removed
- Wicket gates removed
- Lower wear ring removed
- Preparation for penstock recoating in progress
- Runner scheduled to be removed September 16, 2013























- Unit will be completely disassembled by mid-September
- Inspections and Non-Destructive Testing of all major components
- Begin reassembly in February 2014
- Unit return to service scheduled for September 2014

# G-22, G-23 & G-24 Overhaul: Cost and Schedule Impacts?

- Unilateral contract mod issued to contractor to remove asbestos from air cooling and water piping gasketing materials
  - Estimated cost of \$60,000, no schedule impact
  - Contractor has not submitted the actual cost and schedule impact
- Difficulty removing wicket gate arms
  - Contractor recently submitted a Request for Equitable Adjustment (REA) for ~\$50,000
  - This is currently being evaluated

## G-22, G-23 & G-24 Overhaul: Cost and Schedule Impacts?

- Work Stoppage due to contractor's non-compliance
  - Reclamation does not see that a contract cost or schedule increase is warranted
  - Cost and schedule impacts unknown; contractor has not submitted an Request for Equitable Adjustment (REA)
  - Contractor may submit an REA due to the following:
    - During two month work stoppage, contractor laid off employees and partially remobilized
    - Contractor inferred that Reclamation had increased our safety requirements and subsequently increased their resources
  - Contractor was ahead of schedule six weeks prior to eight week work stoppage;
     Contractor's initial projected expenditures during this time averaged \$3 million/month
  - Contractor's current projected cash flow report reflects no added cost or time to the overall project schedule; costs appear more evenly distributed throughout the life of the project
  - Contractor's next cash flow report and schedule are due at the end of September; they are aware that this information is needed sooner

## G-22, G-23 & G-24 Overhaul: Cost and Schedule Impacts?

- Pending Contract Modifications
  - Shaft Seal Modifications
    - ~\$900,000 for all three units
    - Schedule impact being evaluated
  - Servo Stop Nut Modifications
    - ~\$800,000 for all three units
    - Schedule impact being evaluated

Incorporation of these two mods could impact the overall project schedule by approximately one month; further analysis is needed

## G-19, G-20 & G-21 Uprate/Overhaul

- 2008 Uprate Study showed 770MW was achievable
- 2011 G19-21 Runner Replacement Study showed Slight positive costbenefit for replacement
- 2012/2013 A/E (MWH) Task Order
  - Phase I: High level study of generator
  - Phase II: Holistic study of entire unit

## G-19, G-20 & G-21 Uprate/Overhaul Phase II Study

- Results and associated cost estimates in early November 2013 will allow BPA and USBR to consider economics of an uprate versus an overhaul.
- Results will end the scoping phase and feed the design phase.
- Design to commence in FY2014 pending an uprate decision from BPA.

### **TPP Overhaul Program- Summary**

- Program focuses on maintaining scope, schedule and budget, with attention to quality and risk.
- One TPP unit will be offline for ten years, beginning in 2013.
- Pre-overhaul projects reduce the risk of schedule slippage and increase the probability of five TPP units being available for ten years.
- Program will ensure a reliable TPP for another 30 years of service to the Pacific Northwest.

## **Access to Capital Status Update**

Javier Fernandez
Manager, Cash and Treasury Management

Jon Dull, Manager, Debt and Investment Management

## **Access to Capital Update**

#### BPA's Strategy includes the following tools

- Lease Purchasing of Transmission Capital:
  - Update: BPA is assuming 50% Lease Purchasing.
- Power Prepays:
  - Update: On March 29, 2013, BPA accepted an aggregate amount of \$340 million received on March 29, 2013.
     The imputed rate was ~4.5%.
- Conservation Financing
  - Update: Further development of conservation 3rd-party financing is on hold until regional discussions are held regarding the post-2011 conservation check-in and BPA's overall role in the Conservation Program. In addition, more precise access to capital financial strategies currently being developed may influence the implementation of this financing tool. The earliest potential implementation of 3rd-party conservation financing would be FY 2016.
- Reserve Financing (Transmission)
  - \$15 million per year through FY 2021.
- Revenue Financing
  - Discussions ongoing.

#### Targets

- In the Access to Capital Strategy, BPA focused on level or declining debt service for Power and targeted growing debt service for Transmission.
- To strengthen and clarify this target, BPA would like to restate that the focus is on targeted capital related costs in the revenue requirements which includes: Non-Federal debt service, depreciation and amortization, net interest expense and minimum required net revenue.

http://www.bpa.gov/Finance/FinancialPublicProcesses/AccesstoCapital/Access%20to%20Capital%20-%20Final%20Strategy.pdf

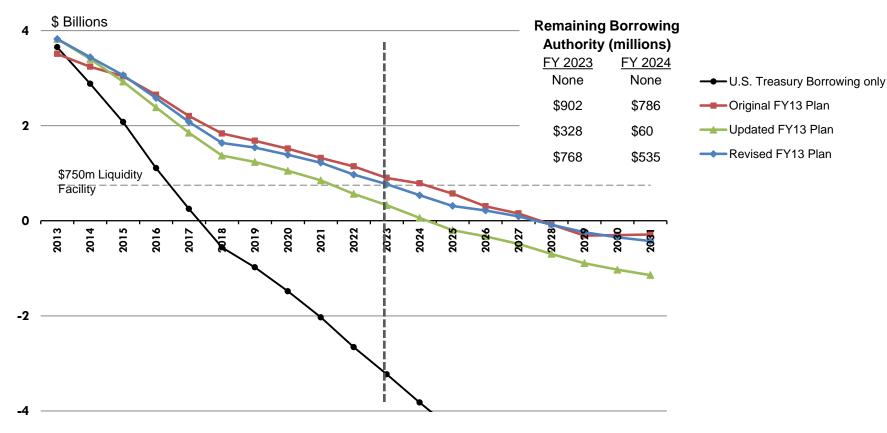
## Access to Capital FY 2013 Plan (Original-Updated-Revised)

Strategy includes the following tools to meet the 10-year target (amounts in parenthesis are cumulative from FY2016 to FY2025):

	Original FY13 Plan	Updated FY13 Plan	Revised FY13 Plan
Lease Purchasing of Transmission Capital:	Ongoing 50% starting in FY13	Ongoing 50% starting in FY13	Ongoing 50% starting in FY13 (\$2.6 billion)
Power Prepays:	\$500m in FY14/15	\$340m in FY13	\$340m in FY13 \$160m in FY14/15
Conservation Financing	70% starting in FY15	70% starting in FY16	70% starting in FY16 (\$704 million)
Reserve Financing (Transmission)	\$15m/year through FY21	\$15m/year through FY21	\$15m/year through FY21 (\$75 million)
Revenue Financing	None	None	\$35m/year starting FY16 (\$350 million)

## **Access to Capital Update**

#### Remaining US Treasury Borrowing Authority (EOY)



- 2008 Financial Information Plan:
  - Ensure that capital financing needs are covered over a rolling 10-year period.
  - $_{\hbox{\scriptsize O}}$  Develop strategies and tools that extend BPA's period of sufficient access to capital.
  - Ensure that BPA is able to meet its capital requirements at low cost.

http://www.bpa.gov/Finance/FinancialInformation/FinancialPlan/Documents/BPA-financial-plan.pdf

## Radio Spectrum Status Update

Brian McConnell

Manager, Budget Planning and Forecasting

Shawna Lamothe Financial Analyst, Budget Strategy and Forecasting

## **Background on Radio Spectrum**

- BPA has substantial telecommunications assets that it uses to operate the generation and transmission facilities of the Federal Columbia River Power System. BPA's telecommunications system has operated using frequencies that formerly were exclusively for Federal government usage. The National Telecommunications and Information Administration Organization Act provided for the reallocation from Federal use to Non-Federal use of certain telecommunications frequencies. The Spectrum Relocation Fund (SRF) was created to provide a centralized and streamlined funding mechanism through which federal agencies could recover the costs associated with relocating their radio communications from certain spectrum bands.
- The Commercial Spectrum Enhancement Act of 2004 provided for the sale of the 1710-55 MHz radio spectrum band by the federal government through a Federal Communication Commission auction. The "Federal Power Agencies", which were and still are uniquely exempt from relocation could "choose" and did choose to relocate from this frequency band.
- In March 2007, BPA received a non-expenditure transfer from the SRF of mandatory appropriation funds from the Office of Management and Budget. The funds came from the Federal government's auction of radio spectrum frequencies to private entities. BPA has received \$48.6 million in such funds based on estimates performed in FY 2005 of the costs to move a portion of its operational communications systems from frequencies the government has auctioned for commercial use to the new government frequencies.
- These funds are dedicated to this project only and any unexpended funds at the end of the project will be returned to the U.S. Treasury.

## **Accomplishments**

- Between FY 2007 through FY 2013, BPA replaced and relocated fourteen 2 gigahertz (GHz) analog microwave communications systems to the 4 and 8 GHz federal frequency bands. This allows Advanced Wireless Services (including AT&T, Verizon, T-Mobile, Cricket, etc.) to operate '3G' (Third Generation) high speed mobile telecommunication devices in the auctioned 2 GHz band.
- BPA was able to replace nearly \$40 million of aging equipment with new equipment without cost to ratepayers.
- All project work was completed as of October 2013. All system project timelines were met and costs were under budget.
- Upon project closeout, BPA estimates it will have approximately \$8 million dollars of excess funds. Although the project is essentially finished, BPA plans to wait until FY 2015 to return the excess funds to the U.S. Treasury in case any unforeseen costs due to replaced microwave operational performance needs arise. BPA does not earn any interest income on these funds.

## **Key Factors in Project Success**

- BPA completed the project on time and well under budget. This was due to several key factors:
  - Effective project cost estimating: BPA's estimates were conservative as they included buffers for inflation and a contingency for work not initially scoped. Further, the estimates were based on the review and analysis of detailed site surveys. These estimating techniques resulted in BPA coming in well under budget.
  - Advance planning and analysis: BPA engaged in advance consultation with its
    Washington D.C. office, the DOE CIO radio spectrum planning staff, the National
    Telecommunication and Information Administration (NTIA) staff and management,
    and OMB staff on: draft legislation; BPA requirements for up-front funding, sufficient
    transition time for BPA certified reliable transition to the new operational
    telecommunication spectrum, to assure continued very high operational
    telecommunications system and FCRPS and FCRTS reliability.

## **Key Factors in Project Success, cont.**

- Advance planning and analysis, continued: The strategic BPA funding, timing, and
  reliability requirements were set by BPA Administrator Steve Wright and agreed to by
  the DOE Deputy Secretary. BPA also collaborated with DOE and OMB on the
  treatment of the Fund and conducted cross-agency planning sessions to discuss
  and analyze internal management before its receipt. BPA also conducted advanced
  detailed scoping of the radio sites to get an accurate picture of project requirements.
- Advanced planning of phased work over a multiple year time frame: This assured
  that mandated spectrum relocation frequency assignment releases were met per the
  committed NTIA schedule. Since BPA's participation was voluntary, Transmission
  was able to successfully integrate this effort with its normal scheduled capital and
  maintenance workload.
- Effective financial management: BPA's Finance organization conducted a thorough review of the applicable financial treatment of the Radio Spectrum Fund and worked in close consultation with DOE to determine the accounting and budget treatment for Radio Spectrum activities. In addition, effective processes and procedures were implemented to track and report activity associated with the Radio Spectrum Fund and strong internal controls over these processes were put in place.

## Radio Spectrum – What's Next?

#### **Project Closeout**

 BPA plans to closeout the Radio Spectrum project in FY 2015. We will work closely with Treasury and OMB staff to ensure that we have returned all unspent funds and that there are no additional financial issues outstanding.

#### **Potential Future Projects**

- Radio Spectrum, including federal spectrum, will only become more scarce over time.
- BPA may participate in a possible 2014 calendar year 1755-1780 MHz spectrum auction which may provide funds to relocate two BPA point-to-point microwave paths that currently have no scheduled capital funding for replacement.

## Follow-up on Functional Budgeting

Brian McConnell,
Manager, Budget Planning and Forecasting

### **Brief Background**

- During the 2010 Integrated Program Review (IPR), customers requested that BPA make changes to our budget development practices, including use of Zero-Based Budgeting.
- We committed to customers that we would evaluate our budget development process and compare it with other standard budgeting approaches, including Zero-Based Budgeting.
- At the July 2012 QBR, we reported back that we had concluded our evaluation of a handful of standard budgeting approaches and were going to implement Functional Budgeting for the 2014 IPR.

## **Functional Budgeting Pilot**

- BPA Finance developed a framework for implementing Functional Budgeting including a list of functions, a potential process that could be used to functionalize budgets, identifying existing financial data that could be utilized, and a draft of how budgets would roll-up to functions BPA-wide.
- At the direction of an executive team, we pursued a pilot implementation across four organizations (Energy Efficiency; Environment, Fish and Wildlife; Information Technology; Transmission Planning and Asset Management) prior to BPA-wide implementation.
- In early August, the results of the pilots were shared with the same team of executives and it was decided that we not pursue Functional Budgeting at this time.

#### **Considerations Behind Decision**

- The pilots turned out to be considerably more work that initially anticipated.
- The use of existing data was almost eliminated completely due to the need to identify functions that were not currently being captured in our financial system.
- 75% of the pilot organizations had ways to mine their own functional data without using Functional Budgeting, limiting the perceived benefits of the pilot.
- Finding common functions across BPA and establishing a common level of granularity proved to be very challenging.
- The results of the pilot were presented in early August to an executive team at a time when BPA was going through significant organizational changes due to the inspection into BPA's hiring practices.
  - Ultimately, it was decided that BPA needed to focus its attention on maintaining the business, and it was not the appropriate time to start this new BPA-wide initiative.

## **Instead of Functional Budgeting**

- The customer request for BPA to use Zero-Based Budgeting came out of the 2010 IPR.
- BPA made significant changes to the IPR process between 2010 and 2012 including:
  - Pre-IPR GM Meeting; Initial IPR Publication: focused workshops based on customer requests; separate capital and expense public process; integrated Agency Services in business unit materials.
- Planning for the 2014 IPR:
  - Build on the improvements from 2012 and continue to be strategic when developing cost targets.
  - Follow our comprehensive schedule for Capital Investment Review (CIR), IPR, and debt management to clarify different processes and to better enable customers to get answers to their questions in the most appropriate venue.

## **Update on NOS & Celilo Projects**

Brian Scott Supervisory General Engineer

#### I-5 Corridor Reinforcement

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

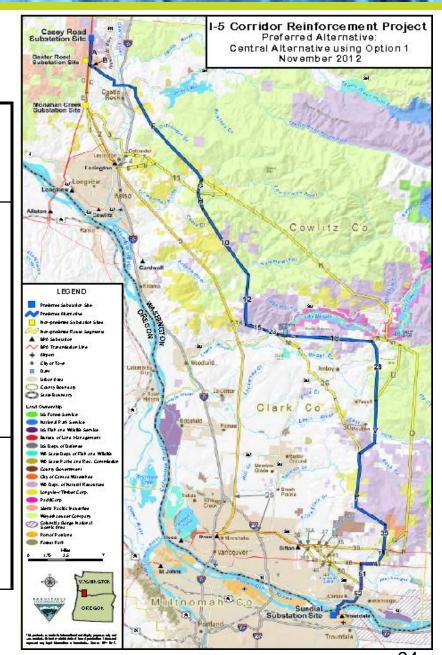
PM: Mark Korsness

#### **Schedule**

- 2009 Feb. Project approved and launched
- 2012 Nov. Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2013 March 25th Close of formal comment period
- Early 2014 updated map of preferred route
- Late 2014 Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2015 start construction (if decision to build)
- Spring 2018 Energization

#### **Budget**

- Total Project costs (Direct): \$45 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (Direct as of 8/16/13): \$33.3 million



#### **Activities:**

#### Last 30 days

- Team continued reviewing comments on Draft EIS and drafting responses.
- PM and siting team continued working with land owners to consider adjustments to preferred route tower and road locations.
- Team has secured limited temporary access agreements with large land owners, including Weyerhaeuser, DNR, Longview Timber, Sierra Pacific (new), Port of Portland, PAC, PGE, City of Camas, and City of Washougal.
- Realty Team has secured Permission to Enter Properties (PEP's) and with high percentage of small landowners.

#### Next 30 days

- Team will continue reviewing comments on Draft EIS and drafting responses.
- PM and siting team will continue working with landowners and will start making some of the tougher decisions about adjustments to preferred route tower and road locations.
- Team will work to modify access agreements with large land owners as work scope expands over time.
- Realty Team will continue to secure Permission to Enter Properties (PEP's) and will follow up with non-responsive small landowners.
- Team will work more closely with DNR about sub site and it's access road near Castle Rock.

## Big Eddy-Knight West of McNary Reinforcement

Project Description: 28 miles new 500kV transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1); New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

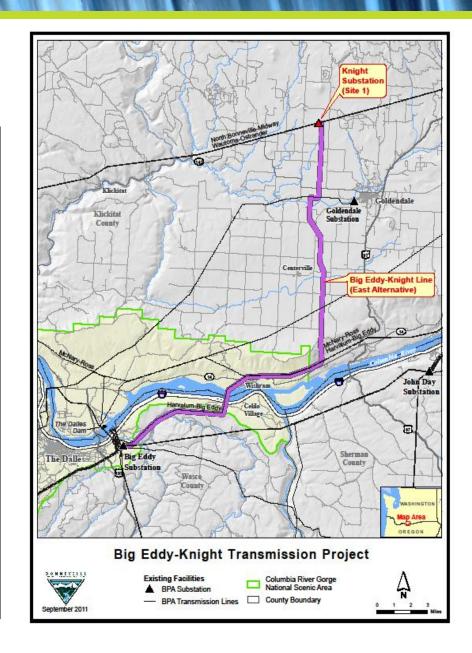
PM: Emmanuel Jaramillo

#### **Schedule**

- 2009 Feb. Project planning approved and launched
- 2011 Sept. Record of Decision
- 2014 Dec. Energization and Tentative date of project completion

#### **Budget**

- Total Project costs (Direct): \$180 million
- Actual costs to date (Direct as of 10/18/13): \$147.7 million



#### **Activities:**

#### Last 30 days

- Received the National Keeper's formal letter on determination of eligibility in favor of BPA.
- Cultural surveys on the Knight-Wautoma fiber effort is complete.
- Wautoma reactor work continues.
- Renewal of land permits continues.
- Deliberation with condemned land owners continues.

#### Next 30 days

- Initiate Categorical Exclusion (CX) document for Knight-Wautoma fiber .
- Continue to assist Department of Justice with condemnation proceedings.
- Meet and discuss mitigation plan with Washington State Historical Office regarding Columbia Hills Archaeological District.
- Coordinate with the Confederated Tribes of the Umatilla Indian Reservation regarding the mitigation for their Traditional Cultural Property sites.
- Continue land permitting renewal process.

### **Central Ferry-Lower Monumental**

**Project Description:** 40 miles of new 500kV transmission line, Central Ferry and Lower Monumental Substation Bay Additions

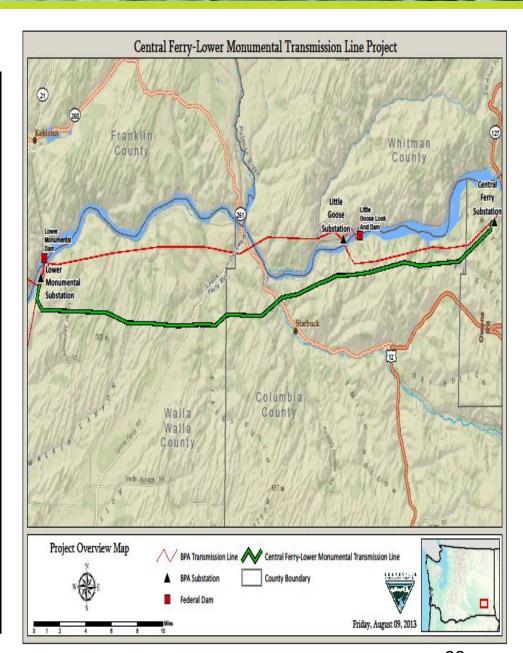
PM: Theresa Berry

#### **Schedule**

- 2009 Feb. Project approved and launched
- 2011 March Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2014 Spring- Construction Start
- 2015 December Energization

#### **Budget**

- Total Project costs (Direct): \$90 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date \$19.9 million



BONNEVILLE POWER ADMINISTRATION

#### **Activities:**

#### Last 30 days

- Transmission line right-of-way acquisition in progress.
- Outreach to tribal entities and WA SHPO complete.
- Biologic and Cultural Surveys complete.
- Substation Design Team has been deployed to refresh or update designs at five Substations under this project.
- Request For Offers out for Line work on 10/18/2013

#### Next 30 days

- Transmission line right-of-way acquisition continues.
- Work on Environmental Supplement Analysis to EIS
- Continue with Substation Design refresh.
- Bidders Tour for the line work

# Montana To Washington Transmission Upgrade Project (M2W Project)

**Project Description:** Upgrades five existing substations, adds a new compensation substation, and upgrades 12-miles of Transmission line between Taft and Dworshak substations.

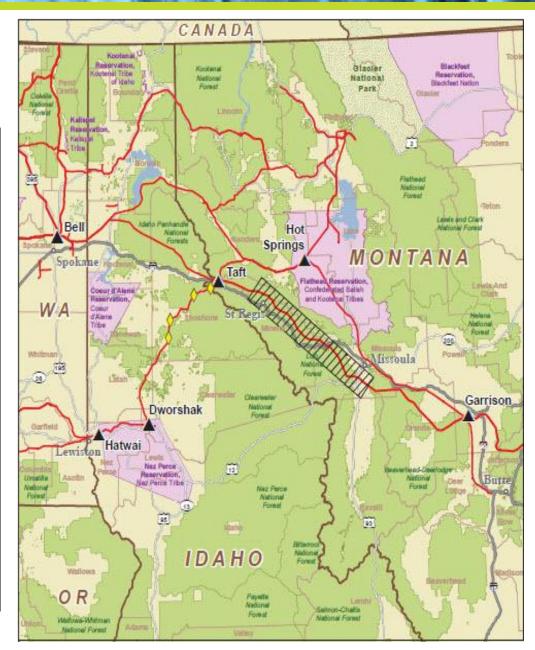
PM: Amit Sinha

#### **Schedule**

- Draft EIS September 2014
- Final EIS and Record of Decision August 2015
- December 2018 Completion

#### **Budget**

- Total Project costs (Est. Direct): \$146 million (Direct)
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Est. Direct): \$7.0 million
- Actual costs to date \$0.5 million



#### **Activities:**

#### **Past**

 Scoping meeting with Public conducted in May and June 2012

#### **Next 30 Days**

- Continue Section 106 Consultations,
   Government- to-Government consultation with Tribes.
- Continue Development of Draft EIS.

### Pacific Direct Current Intertie Upgrade

**Project Description:** Replace the aging Celilo four converter terminal with a new two converter terminal rated for 3800MW and upgrade the Celilo-NOB (Nevada/Oregon Border) transmission line to support operation up to 3800MW.

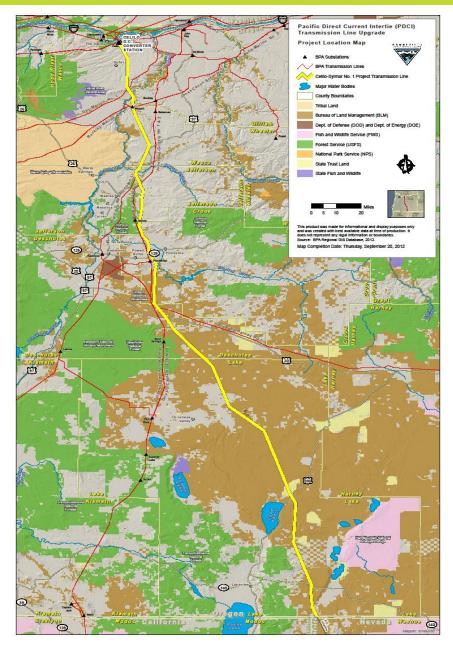
PM: Erich Orth

#### **Schedule**

- 2011 Dec. Project Business Case approved
- 2012 Dec. Award HVDC Converter Replacement contract to ABB
- 2013 July Completed NEPA for Celilo Converter Replacement
- 2014 May Complete NEPA for Celilo –NOB Upgrade
- 2016 Jan. Energize Celilo Converter Station with New Converters
- 2016 Nov. Complete Upgrade of Celilo-NOB to increase PDCI transfer capacity to 3220MW

#### **Budget**

- Total Project costs (Direct): \$325 million
- Actual costs to date \$41.1 million (Direct)



#### **Activities:**

#### Last 30 days

- Held BPA/ABB Design Review Meeting
- Continued work on ABB engineering studies
- ABB started detailed design work for converters
- BPA continued design work and material strategy on line upgrade
- Continue NEPA work on line upgrade

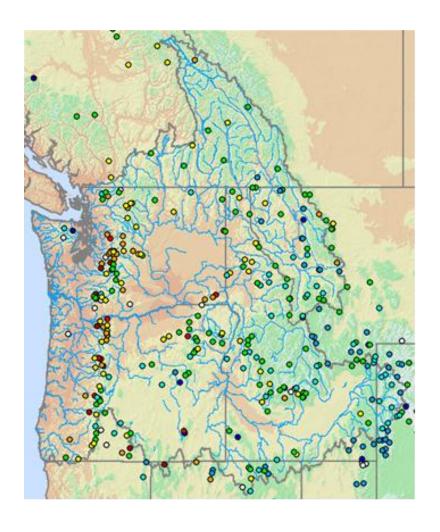
#### Next 30 days

- Complete ABB engineering studies
- ABB to continue detailed design work on converters
- Witness testing of Converter Transformer Bushing
- Continue design and NEPA work on line upgrade
- Begin to order material for line upgrade
- Award contract to re-configure interior Celilo space

## Canadian Real Time Snowpack Monitoring Network Expansion

Erik Pytlak
Weather and Streamflow Forecasting

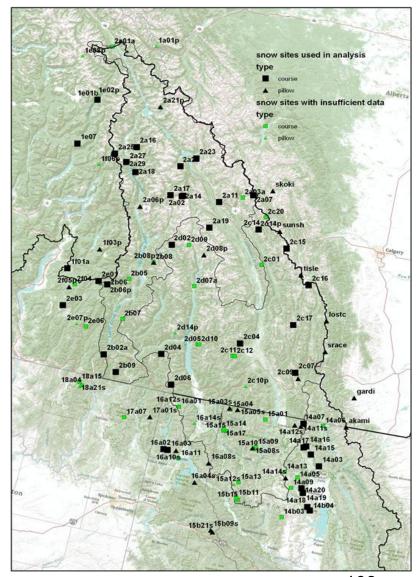
## **Snow Monitoring Network: 2011**



- 30% of our runoff originates from Canada
- Over 200+ real-time snowpack monitoring sites in the US part of the basin, but only 10 in BC portion of the Columbia
- Existing BC network heavily concentrated in Kootenay and Okanagan Basins, with only one site above Revelstoke
- VERY remote areas in the Canadian Columbia
  - Very few roads or trails
  - Very steep slopes
  - Snow is on the ground 9+ months of the year

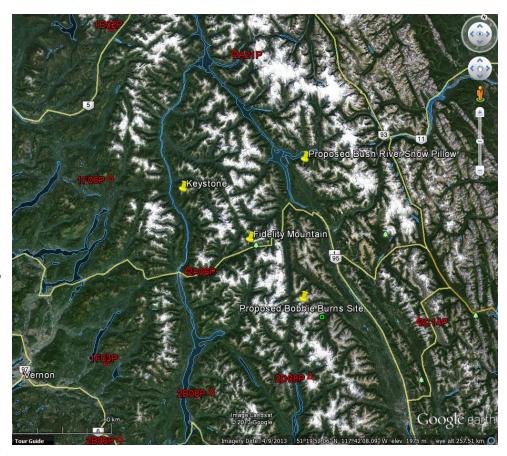
## **PGPW Sensitivity Study: 2009-10**

- Original plan: 5 sites
- Principal Component and GIS Analysis
  - Identify sites with the greatest potential to improve forecasts
  - Some locations may "look" like good candidates, but existing sites may already be good proxies for snowpack monitoring
- Peer reviewed by BC Hydro
- Coordinate with BC Hydro on prohibitive locations
  - Avalanche zones
  - Dangerously steep slopes for installation/repair crews
  - Cultural sites
  - Unsheltered/unforested areas (too much wind and drifting snow)
  - Recreation sites (i.e. hang gliding paths)



### **Final Locations and Installation Info**

- Final plan: 4 sites
  - 2013 Installation
    - Keystone Mountain
  - 2014 Installation
    - o Bush River
    - Bobbie Burns
    - Mt. Fidelity
- 50-50 cost share between BPA and BC Hydro
  - Installation: \$226,330 over 2 years (FY2013 and 14) (NTE \$300,000)
  - So far, costs are running slightly under budget
    - BC Hydro forward purchased most of the equipment
  - Maintenance: ~\$18,000/year
  - Number #1 cost variable: helicopters



## **Expected Benefits**

#### For BPA:

- Real-time (hourly) snow pack monitoring (instead of once a month)
- Real-time weather forecast verification (installations also include temperature and precipitation sensors)
- Allow BPA to make more accurate water supply forecasts at mid-month (or at even finer time-steps)
- Better inform, collaborate, and optimize non-treaty storage/release decisions between BC Hydro and BPA

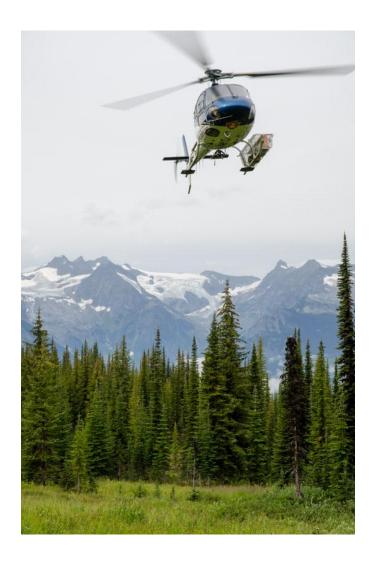
#### For our Partners:

- BCHydro: Exactly the same benefits as BPA receives
- NOAA/NWS: More frequent information to update their daily ESP/water supply forecasts
- Corp of Engineers: Additional information to monitor upstream flood potential
- Regional Stakeholders: Ability to monitor snowpack conditions with us over remote areas of the Canadian Columbia
- Will eventually add to the long term climate monitoring database

### **Before**



## **Arriving on site**



### Installation of tower and snow pillow





Filling pillow with propylene glycol

#### **Finished station**



- Temperature sensor Precipitation gauge
- Antennae
- Logger shelter Snow pillow (covered with metal sheet and mesh)



#### 100% Wood Pole Fall Protection

Darlene LaBrosse
Manager, District Operations and Maintenance

Mission

The Fall Protection Committee is dedicated to reducing fall related injuries and fatalities at Bonneville Power Administration.

#### **Areas of Focus**



Each employee exposed to fall hazards above four feet while ascending, descending or moving point to point at heights must be protected at all times.



Current areas of focus for the Fall Protection Committee are:



- Wood poles
- Lattice steel
- Equipment in substation yards



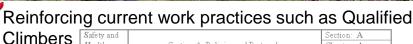
Rescue

#### **Administrative Controls**

Part of the fall protection hierarchy is to reduce exposure to hazard by implementing different work practices to accomplish the same task

Improved landings and increased use of aerial equipment





Safety and
Health
Program
Handbook

Section A: Policies and Protocols Safety Training | Section: A | Chapter: 4 | Page: 2 | Date: 05/01/2009

refresher. Reference Safety & Health Program Handbook, Section F, Chapter 2. Scheduled through Technical Training.

Qualified Climber's Recertification/Climber's Rescue - required annually - 4 hrs.
Electricians, Linemen and some PSC (for all qualified climbers). Annual Qualified
Climber Compliance Record (BPAF 5480.06e) required to be completed annually by
supervisor. Reference Safety & Health Program Handbook, Section B, Chapter 7.
Usually scheduled through the Region (in-house).



#### V

#### Changes to Work Standards and Guides

TRANSMISSION LINE MAINTENANCE STANDARDS AND GUIDE

Page 2 of 7

#### Working Patrol

A working patrol shall include inspecting every structure in the line being patrolled, plus driving or walking the right-of-way between each structure. In addition to the transmission line, include an inspection of the terminal spans and structures.

It is recognized that for safety reasons not all spans may be walkable. The patrolman shall make every effort to inspect every structure. Other inspection tools and procedures shall be utilized.

- · Patrol all Lines a minimum of once every maintenance year.
- Urban Areas or other restricted areas not patrolled by helicopter shall be documented in TLM apps. The district foreman will determine on a case by case basis the ground patrol frequency of these lines not patrolled via helicopter. At least one ground patrol being minimum, more if conditions warrant.

Lines that are not patrolled by helicopter or radial lines may require an additional working patrol at the discretion of the Region.

1x every 10 years

#### Steel Tower Climbing Inspection

- WECC/Significant Equipment Lines (OB19)
- Critical crossings\*
   1x every 5 years
- Communication Towers \*\*
   1x every 5 years

115

### Wood Poles

70,000 poles with maintenance requirements





### Fall Protection on Wood Poles

Linemen from the Fall Protection Committee field tested wood pole fall restricting devices (WPFRD), and rescue harnesses – in order to find the most workable product.





In the early Spring, Linemen were sized for harness fit and made their selection of harness style and WPFRD offered.

### Fall Protection on Wood Poles

- WPFRDs and harnesses were purchased for all journeyman linemen.
- Training was conducted from mid-May through the end of July at the Hammer Training Facility in Richland, WA.





### Fall Protection on Wood Poles

On August 1<sup>st</sup>, 2013 – The work standard requiring BPA Linemen to be fall protected on wood poles went into effect.

- Met our target on fall protection on wood poles on time and under budget
  - WPFRD cost \$125,000
  - Harnesses & rescue kits cost \$400,000



With fall protection we are arresting a person's fall and by doing this.... We are moving the rescue from the ground into the air.



#### Rescue

- Creating a more robust training program
  - Formalized rescue training to cover all employees working at 4 feet and above
  - Implementing "Train the Trainer" program
  - Purchasing
- Increasing awareness
  - For the importance of rescue preparedness and practice due to the danger of suspension trauma
    - also known as orthostatic shock, an effect which occurs when the human body is held upright without any movement for a period of time.
- Required use of harnesses equipped for rescue
- Required use of trauma straps with all harnesses



Example of a harness equipped for rescue and trauma straps.

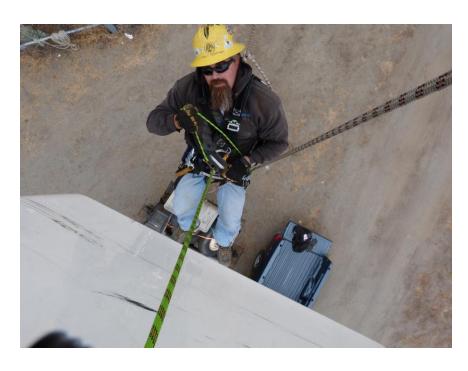


FPC lineman giving instructions during rescue training in 2013.



**DEUS** rescue device

### **Rescue Training**





- Training was held mid-May through the end of July 2013, for TLM at the Hammer Training Facility in Richland, on the use of DEUS rescue devices.
- We are in the process of purchasing DEUS rescue devices for Electricians.
- Plans are underway for training the trainers who will train electricians, mechanics, welders and facility maintenance workers in FY2014.
- We are purchasing additional DEUS rescue devices to be used for ad hoc practice/training when time permits.
- TLM's annual training for 2014 will be held mid-May through July.

#### **Lattice Steel**

### 43,000 Structures with over 400 different designs





On steel towers, there are 3 challenges

- Vertical ascent of towers
- Horizontal movement on the tower and the challenges to anchor travel restraint systems



Design new structures to include anchorage points, and reviewing old designs to identify anchorage points

# Lattice Steel ✓ Future Tower Designs

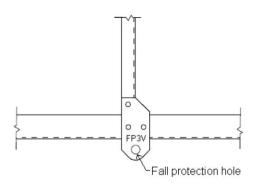
#### Fall protection will be included as design consideration

- Engineered anchorage points on the structure
- Anchorage location and availability
- Permanent vertical lifelines/ladders/step bolts

All FP holes are to be stamped near the hole with an identifying mark similar to the following examples

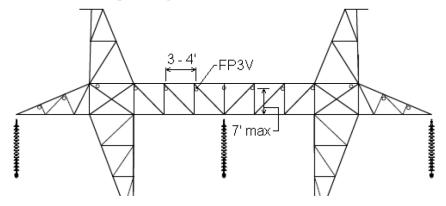
a. FP3V: 3000 pounds vertical

b. FP5H4V: 5000 pounds horizontal and 4000 pounds vertical



Moving across bridge and arms

a) Provide FP3V attachments at spacing adequate for lineman to maintain attachment to at least one hole when moving across bridge and arms (3-4). Locate holes near top of bridge but within reach (7) max.



#### In the Substation Yards

#### 700 Transformers and Reactors





#### **Fall Arrest Post or Rail System**

Needs a welded base plate for the fall arrest post

Districts have been surveyed for number of completed transformers and reactors

Remaining transformers and reactors will have a corrective work order created



#### **Future Design**

Engineering design has included fall protection criteria in the new transformer design specifications

Base for fall protection post

Post holders for handrail system

Slip resistant paint



### **✓** 2013 Accomplishments

- Creation of the Fall Protection Committee 2/1/13
- Visited Duke Energy and Pennsylvania Power & Light to research and understand their work practices in fall protection
- Implemented administrative changes for fall protection
- Future tower designs will include anchorage points for FP
- Field tested and purchased harnesses equipped for rescue and wood pole fall restricting devices for TLM
- Distributed FP equipment and trained all TLM linemen
- Implemented fall protection on wood 8/1/13

### 2014 Work Plan

- Purchase DEUS rescue kits and harnesses for all other crafts
- Purchase additional DEUS rescue devices for ah hoc practice/training
- Plan and execute "Train the Trainer" concept
- Plan and execute FP training for all crafts through the "Train the Trainer" concept
- Hold Annual Rescue training for TLM
- Purchase spotting scope and digital camera setups for TLM crews
- Change work standard for steel structure climbing inspections
- Work to develop rope access program for lattice steel
  - Obtain SPRAT certification
  - Continue to test rope
- Review existing tower designs to identify anchorage points.

### Ultimately the end result will be.....

A fall protection program where workers have the knowledge to best determine the applicable type of fall protection to use in a given situation.

### **Occupancy Sensors Project**

Sheila Bennett BPA Technology Innovation Office

Mira Vowles
BPA Energy Efficiency Emerging Technologies

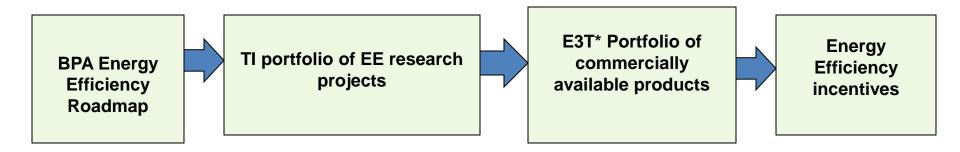
### **Splice Shunt For High Temperature Operation**



### **Operational Multi-Gigabyte Ethernet Transport**

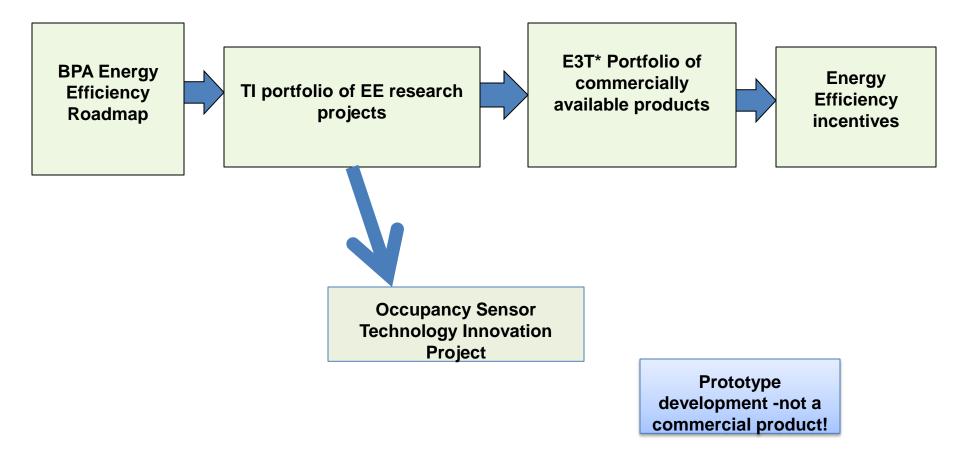


### **Technology Innovation and E3T\* Portfolios**



<sup>\*</sup> E3T = Energy Efficiency Emerging Technology

### **Technology Innovation and E3T\* Portfolios**



### Occupancy Sensor Technology Innovation Project

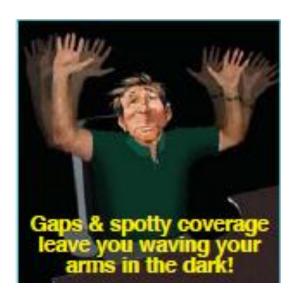
- Co-funded by the Department of Energy
- Principal Investigator: Luigi Gentile Polese, National Renewable Energy Laboratory



NREL PIX 19567

### Why improve occupancy sensors?





Potential to save 32.7 aMW in Pacific Northwest

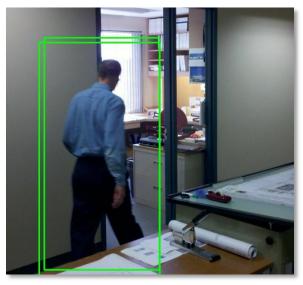
### **Image Processing Occupancy Sensor (IPOS)**





Uses smart phone camera

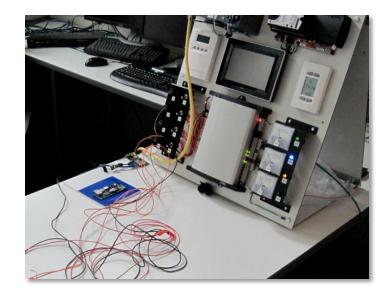




Uses face and people recognition



Digitally filters out stationary components and creates motion vectors



Integrates with building automation systems for occupancybased lighting, ventilation and temperature setback energy savings



Multiple detection zones using one sensor

# **Occupancy Sensor TI Project Results**



- Successful proof-of-concept
  - 39% more accurate than current sensors
- Recipient of 2013 R&D 100 Award



### **Other IPOS Use Cases**



- Daylight Harvesting Commissioning
- Daylight Harvesting and Occupancy Control
- Occupancy and Event Logger
- Light Logging

### Non-Energy IPOS Use Cases



- Alarm if walk-in door is left open
- Log time walk-in door is open
- Interactive Exhibit Control
- Space Planning/Management

### When will IPOS be commercially available?



- NREL is actively seeking commercialization partners
- NREL has talked with dozens of interested companies
- Not currently licensed

# Questions?



# **Appendix 1**

**FCRPS Summary Statement of Revenues and Expenses** 

FY 2012

Requesting BL: CORPORATE BUSINESS UNIT Through the Month Ended September 30, 2013

Preliminary/ Unaudited Unit of measure: \$ Thousands

Report ID: 0020FY13

Run Date/Run Time: October 21,2013/04:47 Data Source: EPM Data Warehouse % of Year Elapsed =

FY 2013

Actuals:

D <Note 1

**Current EOY** 

С

FY 2013

Operating Revenues	Ac	ctuals	Rate Case	SOY Budget	Forecast	FYTD
1 Gross Sales (excluding bookout adjustment) <note 3<="" td=""><td>\$ 3</td><td>3.241.564</td><td>\$ 3,346,003</td><td>\$ 3,229,115</td><td>\$ 3,262,437</td><td>\$ 3.242.157</td></note>	\$ 3	3.241.564	\$ 3,346,003	\$ 3,229,115	\$ 3,262,437	\$ 3.242.157
2 Bookout adjustment to Sales	Φ ,	(61,972)	φ 3,346,003	φ 3,229,113	(58,870)	φ 3,242,137 (66,587)
3 Miscellaneous Revenues		56,675	58,137	65,796	76,893	82,019
4 U.S. Treasury Credits		81,583	100,447	85,999	92,777	88,692
5 Total Operating Revenues		3,317,850	3,504,586	3,380,909	3,373,237	3,346,281
Operating Expenses		0,017,000	0,004,000	0,000,000	0,010,201	0,040,201
Power System Generation Resources						
Operating Generation Resources						
6 Columbia Generating Station		292,636	345,945	338,267	330.147	330,066
7 Bureau of Reclamation		89.005	119.891	132.391	128,691	127,116
B Corps of Engineers		206,967	215,700	215,700	215,700	208,096
9 Long-term Contract Generating Projects		25,869	25,831	26,008	23,490	22,518
0 Operating Generation Settlement Payment		20,437	22,148	20,785	22,121	22,122
Non-Operating Generation		2,153	1,948	2,316	(22,400)	(25,878)
12 Gross Contracted Power Purchases and Augmentation Power Purch		205,350	164,905	119,364	191,973	220,987
Bookout Adjustment to Power Purchases		(61,972)	104,905	119,304	(58,870)	(66,587)
4 Exchanges & Settlements <note 3<="" td=""><td></td><td>203,712</td><td>201.760</td><td>203.200</td><td>202.689</td><td>201.933</td></note>		203,712	201.760	203.200	202.689	201.933
5 Renewables		33,912	37,958	37,956	36,140	30,057
16 Generation Conservation		37,505	47,850	47.850	41,396	36,078
7 Subtotal Power System Generation Resources	-	1,055,573	1,183,936	1,143,838	1,111,077	1,106,508
8 Power Services Transmission Acquisition and Ancillary Services - (3rd F		51,274	55,035	55.035	55,135	53,113
9 Power Services Non-Generation Operations	irty) <note 2<="" td=""><td>79.794</td><td>90,210</td><td>89.537</td><td>84.076</td><td>79.254</td></note>	79.794	90,210	89.537	84.076	79.254
20 Transmission Operations		121,792	133,590	131,248	123,016	114.942
21 Transmission Operations		135.377	150,831	151,246	148.808	146.933
22 Transmission Engineering		46.111	32,803	41.855	42.493	45.876
Trans Services Transmission Acquisition and Ancillary Services - (3rd P	rt /\ -Noto 2	18,093	11,590	9,381	11,341	13.118
24 Transmission Reimbursables	ity) CNOTE 2	8,241	9,914	9,682	11,725	15,401
25 Fish and Wildlife/USF&W/Planning Council/Environmental Requirement		279,641	281,129	282,067	281,104	· ·
BPA Internal Support		279,641	201,129	202,007	201,104	277,237
26 Additional Post-Retirement Contribution		34,486	35,641	35,064	35,642	35,641
27 Agency Services G&A		109,854	113,623	110,942	113,751	111,976
28 Other Income, Expenses & Adjustments		(216)	110,020	(2,297)	1,319	(1,851)
29 Non-Federal Debt Service		659,680	758.196	732,138	733,281	733,313
Depreciation & Amortization		389,097	432.451	408,383	421,658	429,716
Total Operating Expenses	;	2,988,798	3,288,949	3,200,151	3,174,426	3,161,176
Net Operating Revenues (Expenses)		329,052	215,637	180,759	198,811	185,106
Interest Expense and (Income)						
33 Interest Expense		331,732	428,123	363,288	357,183	356,337
34 AFUDC		(45,845)	(45,847)	(46,810)	(42,635)	(37,529)
35 Interest Income		(43,587)	(38,223)	(28,760)	(30,685)	(28,937)
Net Interest Expense (Income)		242,301	344,053	287,718	283,863	289,871
Net Revenues (Expenses)	\$	86,752	\$ (128,416)	\$ (106,960)	\$ (85,052)	\$ (104,765)

The consolidated FCRPS Statement reduces reported Revenues and Expenses where between business line transactions occur, the most significant of which are for Transmission Acquisition and Ancillary Services. The Residential Exchange Program expenses reflect the Scheduled Amount of REP benefits payments established in the 2012 REP Settlement Agreement. The Scheduled Amount of REP benefit payments

incorporates a \$76,537,617 reduction in REP benefits to provide Refund Amount payments to COUs. The Refund Amount returned to the COUs is reflected through a reduction in the Gross Sales amount.

**Power Services Detailed Statement of Revenues and Expenses** 

Requesting BL: POWER BUSINESS UNIT Unit of Measure: \$ Thousands

Report ID: 0060FY13

Through the Month Ended September 30, 2013 Preliminary/ Unaudited Run Date\Time: October 22, 2013 06:33 Data Source: EPM Data Warehouse % of Year Elapsed = 100%

		Α	B C D <no< th=""><th>E</th><th>F</th></no<>			E	F
		FY 2012		FY 2013		FY 2013	FY 2013
		Actuals	Rate Case	SOY Budget	Current EOY Forecast	Actuals	Actuals per Forecast
(	Operating Revenues						
1	Gross Sales (excluding bookout adjustment) <note 2<="" td=""><td>\$ 2,450,595</td><td>\$ 2,501,672</td><td>\$ 2,407,477</td><td>\$ 2,457,974</td><td>\$ 2,438,468</td><td>99%</td></note>	\$ 2,450,595	\$ 2,501,672	\$ 2,407,477	\$ 2,457,974	\$ 2,438,468	99%
2	Bookout Adjustment to Sales	(61,972)	-	-	(58,870)	(66,587)	113%
3	Miscellaneous Revenues	26,412	26,335	27,181	26,544	28,013	106%
4	Inter-Business Unit	134,716	131,078	138,442	140,828	143,689	102%
5	U.S. Treasury Credits	81,583	100,447	85,999	92,777	88,692	96%
6	Total Operating Revenues	2,631,334	2,759,531	2,659,099	2,659,253	2,632,274	99%
(	Operating Expenses						
	Power System Generation Resources						
	Operating Generation						
7	COLUMBIA GENERATING STATION	292,636	345,945	338,267	330,147	330,066	100%
8	BUREAU OF RECLAMATION	89,005	119,891	132,391	128,691	127,116	99%
9	CORPS OF ENGINEERS	206,967	215,700	215,700	215,700	208,096	96%
10	LONG-TERM CONTRACT GENERATING PROJECTS	25,869	25,831	26,008	23,490	22,518	96%
11	Sub-Total	614,477	707,367	712,366	698,028	687,796	99%
	Operating Generation Settlements and Other Payments	,	,	,	,	,	
12	COLVILLE GENERATION SETTLEMENT	20,437	22,148	20,785	22,121	22,122	100%
13	Sub-Total	20,437	22,148	20,785	22,121	22,122	100%
	Non-Operating Generation	·			·	·	
14	TROJAN DECOMMISSIONING	1,611	1,500	1,600	(23,000)	(26,485)	115%
15	WNP-1&4 O&M	542	448	716	600	607	101%
16	Sub-Total	2,153	1,948	2,316	(22,400)	(25,878)	116%
	Gross Contracted Power Purchases (excluding bookout adjustments)						
17	PNCA HEADWATER BENEFITS	2,935	2,704	2,704	2,900	3,404	117%
18	PURCHASES FOR SERVICE AT TIER 2 RATES	8,456	23,419	23,419	23,419	23,382	100%
19	OTHER POWER PURCHASES - (e.g. Short-Term)	194,065	72,632	93,241	165,655	193,279	117%
20	Sub-Total	205,456	98,755	119,364	191,973	220,987	115%
21	Bookout Adjustments to Contracted Power Purchases	(61,972)	-	-	(58,870)	(66,587)	113%
	Augmentation Power Purchases						
22	AUGMENTATION POWER PURCHASES	(107)	66,150	-	-	-	0%
23	Sub-Total	(107)	66,150	-	-	-	0%
	Exchanges & Settlements						
24	RESIDENTIAL EXCHANGE PROGRAM <note 2<="" td=""><td>203,712</td><td>201,760</td><td>203,200</td><td>202,689</td><td>201,933</td><td>100%</td></note>	203,712	201,760	203,200	202,689	201,933	100%
25	Sub-Total	203,712	201,760	203,200	202,689	201,933	100%
	Renewable Generation						
26	RENEWABLE CONSERVATION RATE CREDIT	(18)	-	-	-	-	0%
27	RENEWABLES	34,036	38,142	38,140	36,140	30,463	84%
28	Sub-Total	\$ 34,018	\$ 38,142	\$ 38,140	\$ 36,140	\$ 30,463	84%

**Power Services Detailed Statement of Revenues and Expenses** 

Requesting BL: POWER BUSINESS UNIT Unit of Measure: \$ Thousands

Report ID: 0060FY13

Through the Month Ended September 30, 2013 Preliminary/ Unaudited Run Date\Time: October 22, 2013 06:33

Data Source: EPM Data Warehouse

% of Year Elapsed = 100%

		Α	В	С	D <note 1<="" th=""><th>Е</th><th>F</th></note>	Е	F
		FY 2012		FY 2013		FY 2013	FY 2013
		Actuals	Rate Case	SOY Budget	Current EOY Forecast	Actuals	Actuals per Forecast
	Generation Conservation						
29	DSM TECHNOLOGY	\$ 8	\$ -	\$ -	\$ -	\$ 1	0%
30	CONSERVATION ACQUISITION	12,664	15,950	15,950	13,436	10,394	77%
31	LOW INCOME ENERGY EFFICIENCY	7,274	5,000	5,000	5,080	5,025	99%
32	REIMBURSABLE ENERGY EFFICIENCY DEVELOPMENT	2,435	11,500	11,500	7,200	5,368	75%
33 34	LEGACY	1,002	900	900	800	773	97%
34 35	MARKET TRANSFORMATION	14,138	14,500	14,500	14,880	14,517	98% 0%
35 36	CONSERVATION RATE CREDIT (CRC) Sub-Total	(17) 37,505	47,850	47,850	41,396	36,078	87%
36 <b>37</b>	Power System Generation Sub-Total	1,055,679	1,184,120	1,144,021	1,111,077	1,106,913	100%
31		1,055,679	1,164,120	1,144,021	1,111,077	1,106,913	100%
	Power Non-Generation Operations						
	Power Services System Operations						
38	INFORMATION TECHNOLOGY	6,058	7,316	7,502	7,182	5,881	82%
39	GENERATION PROJECT COORDINATION	6,541	6,224	6,887	6,622	7,423	112%
40	SLICE IMPLEMENTATION Sub-Total	1,113 13,711	2,394	1,099 15.488	999	854	86% 96%
41	Power Services Scheduling	13,711	15,934	15,400	14,803	14,158	96%
42	OPERATIONS SCHEDULING	9,071	10.010	10 212	10 212	0.406	82%
42	OPERATIONS SCHEDULING OPERATIONS PLANNING	6,720	10,010 6,709	10,312 7,255	10,312 6,937	8,426 6,444	93%
43 44	Sub-Total	15.791	16.719	17,255	17.249	14.871	86%
	Power Services Marketing and Business Support	13,731	10,713	17,507	17,245	14,071	0070
45	POWER R&D	5,556	5,939	5.940	5,925	6,186	104%
46	SALES & SUPPORT	18,566	20,130	19.539	17,948	18,822	105%
47	STRATEGY, FINANCE & RISK MGMT	14,107	18,289	17,612	15,958	13,559	85%
48	EXECUTIVE AND ADMINISTRATIVE SERVICES	3,772	3,636	4,163	3,981	3,804	96%
49	CONSERVATION SUPPORT	8,416	9,608	9,272	8,258	7,902	96%
50	Sub-Total	50,417	57,602	56,527	52,069	50,273	97%
51	Power Non-Generation Operations Sub-Total	79,919	90,255	89,582	84,121	79,302	94%
	Power Services Transmission Acquisition and Ancillary Services PBL Transmission Acquisition and Ancillary Services						
52	POWER SERVICES TRANSMISSION & ANCILLARY SERVICES	115,493	89,031	90,345	96,345	99,295	103%
53	3RD PARTY GTA WHEELING	48,721	52,891	52,891	52,891	51,244	97%
54	POWER SERVICES - 3RD PARTY TRANS & ANCILLARY SVCS	2,553	2,244	2,244	2,244	1,869	83%
55	GENERATION INTEGRATION / WIT-TS	9,101	12,968	12,968	12,968	9,941	77%
56	TELEMETERING/EQUIP REPLACEMT	5	51	51	51	1	2%
57	Power Srvcs Trans Acquisition and Ancillary Services Sub-Tota	175,873	157,185	158,498	164,499	162,351	99%
	Fish and Wildlife/USF&W/Planning Council/Environmental Req BPA Fish and Wildlife						
58	Fish & Wildlife	248,957	241,384	242,922	242,959	238,984	98%
59	USF&W Lower Snake Hatcheries	22,000	29,900	29,880	28,880	28,700	99%
60	Planning Council	9,240	10,355	10,355	10,355	10,118	98%
61	Fish and Wildlife/USF&W/Planning Council Sub-Total	\$ 280,197	\$ 281,639	\$ 283,157	\$ 282,194	\$ 277,802	98%

**Power Services Detailed Statement of Revenues and Expenses** 

Requesting BL: POWER BUSINESS UNIT Unit of Measure: \$ Thousands

Report ID: 0060FY13

Through the Month Ended September 30, 2013
Preliminary/ Unaudited

Run Date\Time: October 22, 2013 06:33

Data Source: EPM Data Warehouse
% of Year Elapsed = 100%

	Α	В	С	<b>D</b> <note 1<="" th=""><th>Е</th><th>F</th></note>	Е	F
	FY 2012		FY 2013		FY 2013	FY 2013
	Actuals	Rate Case	SOY Budget	Current EOY Forecast	Actuals	Actuals per Forecast
BPA Internal Support  Additional Post-Retirement Contribution  Agency Services G&A (excludes direct project support)  BPA Internal Support Sub-Total	\$ 17,243 52,789 <b>70,032</b>	\$ 17,821 52,662 <b>70,483</b>	\$ 17,243 52,586 <b>69,829</b>	\$ 17,821 53,949 <b>71,770</b>	\$ 17,820 52,108 <b>69,928</b>	100% 97% <b>97%</b>
65 Bad Debt Expense	1,757	-	-	3	12	342%
66 Other Income, Expenses, Adjustments	(1,650)	-	-	698	(139)	-120%
Non-Federal Debt Service Energy Northwest Debt Service		400.470		20.000	, ,	
67 COLUMBIA GENERATING STATION DEBT SVC 68 WNP-1 DEBT SVC	101,519 284,923	100,172 249,288	92,203 237,437	96,880 234,800	96,935 234,847	100% 100%
69 WNP-3 DEBT SVC	158,713	175,817	174,617	234,800 170,691	170,737	100%
70 Sub-Total	545,155	525,277	504,257	502,371	502,518	100%
Non-Energy Northwest Debt Service	0.0,.00	020,2	001,201	002,01	002,010	.0070
71 CONSERVATION DEBT SVC	2,687	2,377	2,610	2,610	2,617	100%
72 COWLITZ FALLS DEBT SVC	11,715	11,709	11,709	11,595	11,474	99%
73 NORTHERN WASCO DEBT SVC	1,751	2,224	1,927	1,927	1,926	100%
74 Sub-Total	16,153	16,309	16,247	16,133	16,018	99%
75 Non-Federal Debt Service Sub-Total	561,308	541,586	520,504	518,504	518,536	100%
76 Depreciation	111,724	127,560	119,100	126,500	130,353	103%
77 Amortization	87,562	86,767	92,303	92,478	92,819	100%
78 Total Operating Expenses	2,422,400	2,539,594	2,476,994	2,451,844	2,437,878	99%
79 Net Operating Revenues (Expenses)	208,934	219,937	182,105	207,409	194,397	94%
Interest Expense and (Income) Federal Appropriation Capitalization Adjustment Borrowings from US Treasury Customer Prepaid Power Purchases AFUDC Interest Income Net Interest Expense (Income) Total Expenses	205,652 (45,937) 49,169 - (8,835) (30,301) 169,748 2,592,149	222,714 (45,937) 75,015 - (13,592) (16,756) 221,444 2,761,038	53,390 - (13,410) (11,500) 199,520 2,676,514	218,106 (45,937) 55,916 7,653 (11,235) (16,617) 207,886 2,659,730	218,164 (45,937) 55,698 7,653 (10,674) (15,444) 209,460 2,647,338	100% 100% 100% 100% 95% 93% 101%
Net Revenues (Expenses)	\$ 39,185	\$ (1,507)	\$ (17,415)	\$ (476)	\$ (15,064)	3163%

<sup>&</sup>lt;1 Although the forecasts in this report are presented as point estimates, BPA operates a hydro-based system that encounters much uncertainty regarding water supply and wholesale market prices. These uncertainties among other factors may result in large range swings +/- impacting the final results in revenues, expenses, and cash reserves.</p>

<sup>&</sup>lt;2 The Residential Exchange Program expenses reflect the Scheduled Amount of REP benefits payments established in the 2012 REP Settlement Agreement. The Scheduled Amount of REP benefit payments incorporates a \$76,537,617 reduction in REP benefits to provide Refund Amount payments to COUs. The Refund Amount returned to the COUs is reflected through a reduction in the Gross Sales amount.</p>

Transmission Services Detailed Statement of Revenues and Expenses Report ID: 0061FY13

Run Date/Time: October 22, 2013 06:34 Requesting BL: TRANSMISSION BUSINESS UNIT Through the Month Ended September 30, 2013 Data Source: EPM Data Warehouse Unit of Measure: \$ Thousands **Preliminary/ Unaudited** % of Year Elapsed =

		Α	В	С	D <note 1<="" th=""><th>E</th><th>F</th></note>	E	F
		FY 2012		FY 2013		FY 2013	FY 2013
		Actuals	Rate Case	SOY Budget	Current EOY Forecast	Actuals	Actuals per Forecast
	Operating Revenues						
	Sales						
	Network						
1	Network Integration	\$ 122,765	\$ 132,022	\$ 126,030	\$ 120,360	\$ 122,700	102%
2	Other Network	376,535	410,898	390,992	380,701	379,306	100%
3	Intertie	77.120	78,299	79,223	80,333	78,774	98%
4	Other Direct Sales	214,548	223,112	225,393	223,069	222.910	100%
5	Miscellaneous Revenues	30,263	31,802	38,615	50,348	54,007	107%
					,		
6	Inter-Business Unit Revenues	143,909	93,888	103,067	109,110	122,177	112%
7	Total Operating Revenues	965,141	970,021	963,319	963,922	979,873	102%
	Operating Expenses						
	Transmission Operations						
	•						
8	System Operations INFORMATION TECHNOLOGY	9.098	7.529	7.449	7.508	9.115	121%
9	POWER SYSTEM DISPATCHING	12.089	12.748	13.486	7,506 12.486	12.155	97%
10	CONTROL CENTER SUPPORT	13.646	14.498	14.583	14.585	14.062	96%
11	TECHNICAL OPERATIONS	3,816	8,623	5,029	4,396	4,410	100%
12	SUBSTATION OPERATIONS	21,947	21,735	21,634	21,569	21,750	101%
13	Sub-Total	60,595	65,133	62,181	60,544	61,490	101%
.0	Scheduling	00,000	00,100	02,101	00,044	01,400	10270
14	RESERVATIONS	4,064	1,109	5,466	4,667	4,160	89%
15	PRE-SCHEDULING	216	486	245	245	240	98%
16	REAL-TIME SCHEDULING	3,758	5,185	4,757	3,601	3,879	108%
17	SCHEDULING TECHNICAL SUPPORT	948	5,749	402	451	432	96%
18	SCHEDULING AFTER-THE-FACT	236	462	257	257	236	92%
19	Sub-Total	9,222	12,991	11,129	9,222	8,948	97%
	Marketing and Business Support						
20	TRANSMISSION SALES	2,787	3,362	3,089	2,848	2,509	88%
21	MKTG TRANSMISSION FINANCE	286	310	-	(6)	(6)	93%
22	MKTG CONTRACT MANAGEMENT	4,442	4,572	4,699	4,306	4,498	104%
23	MKTG TRANSMISSION BILLING	2,229	2,382	2,790	2,636	2,528	96%
24	MKTG BUSINESS STRAT & ASSESS	6,603	6,670	6,593	6,613	6,552	99%
25	Marketing Sub-Total	16,345	17,296	17,171	16,396	16,081	98%
26	EXECUTIVE AND ADMIN SERVICES	12,204	13,764	13,330	11,734	10,364	88%
27	LEGAL SUPPORT	3,034	3,227	4,057	2,989	2,240	75%
28	TRANS SERVICES INTERNAL GENERAL & ADMINISTRATIVE	13,995	11,949	14,456	13,833	9,199	66%
29	AIRCRAFT SERVICES	1,082	2,438	2,287	1,808	1,205	67%
30 31	LOGISTICS SERVICES SECURITY ENHANCEMENTS	4,839 475	5,792 1,001	5,636 1,001	5,540 951	4,710 705	85% 74%
32	Business Support Sub-Total	35,630	38,170	40,767	36,854	28,423	77%
33	Transmission Operations Sub-Total	\$ 121.792	\$ 133,590	\$ 131,248	\$ 123,016	\$ 114.942	93%
33	Transmission Operations Sub-Total	φ 1∠1,/9Z	<b>р</b> 133,390	<b>⊅</b> 131,248	<b>⊅</b> 1∠3,016	Ф 114,942	93%

Report ID: 0061FY13 Transmission Services Detailed Statement of Revenues and Expenses

Requesting BL: TRANSMISSION BUSINESS UNIT

Through the Month Ended September 30, 2013

Data Source: EPM Data Warehouse
Unit of Measure: \$ Thousands

Preliminary/ Unaudited

% of Year Elapsed = 100%

		Α	В	С	D <note 1<="" th=""><th>E</th><th>F</th></note>	E	F
		FY 2012		FY 2013		FY 2013	FY 2013
		Actuals	Rate Case	SOY Budget	Current EOY Forecast	Actuals	Actuals per Forecast
	Transmission Maintenance System Maintenance						
34	NON-ELECTRIC MAINTENANCE	\$ 25,900	\$ 27,033	\$ 26,917	\$ 26,888	\$ 25,204	94%
35	SUBSTATION MAINTENANCE	28.056	30.825	30.791	28.810	27,726	96%
36	TRANSMISSION LINE MAINTENANCE	24,984	26,664	26,198	23,396	26,572	114%
37	SYSTEM PROTECTION CONTROL MAINTENANCE	11,651	13,215	12,852	12,850	11,869	92%
38	POWER SYSTEM CONTROL MAINTENANCE	12,637	13,850	16,326	17,099	17,623	103%
39	JOINT COST MAINTENANCE	146	212	212	217	123	57%
40	SYSTEM MAINTENANCE MANAGEMENT	4,879	6,516	7,544	7,072	7,076	100%
41	ROW MAINTENANCE	5,243	25,256	8,438	8,747	7,298	83%
42	HEAVY MOBILE EQUIP MAINT		(19)	-	-	(125)	0%
43	TECHNICAL TRAINING	2,443	2,991	2,888	2,888	2,211	77%
44	VEGETATION MANAGEMENT	16,141	_	16,818	16,513	17,928	109%
45	Sub-Total	132,079	146,545	148,984	144,481	143,506	99%
	Environmental Operations						
46	ENVIRONMENTAL ANALYSIS	10	82	82	82		0%
47	POLLUTION PREVENTION AND ABATEMENT	3,288	4,204	4,212	4,245	3,427	81%
48	Sub-Total	3,298	4,286	4,294	4,327	3,427	79%
49	Transmission Maintenance Sub-Total	135,377	150,831	153,278	148,808	146,933	99%
	Transmission Engineering System Development						
50	RESEARCH & DEVELOPMENT	6,653	8,000	7.990	7,269	6,657	92%
51	TSD PLANNING AND ANALYSIS	12,734	11,895	14,699	15,948	16,060	101%
52	CAPITAL TO EXPENSE TRANSFER	11,765	4,072	4,072	4,073	7,068	174%
53	NERC/WECC COMPLIANCE	9,916	7,008	12,936	12,135	13,056	108%
54	ENVIRONMENTAL POLICY/PLANNING	1,188	1,828	1,776	1,885	1,241	66%
55	ENG RATING AND COMPLIANCE	3,855	- ,020	382	1,182	1,794	152%
56	Sub-Total	46,111	32,803	41,855	42,493	45,876	108%
57	Transmission Engineering Sub-Total	46,111	32,803	41,855	42,493	45,876	108%
	Trans. Services Transmission Acquisition and Ancillary Services BBL Acquisition and Ancillary Products and Services	,			,	10,010	
58	ANCILARY SERVICES PAYMENTS	121,528	117,777	125,731	128,156	131,064	102%
59	OTHER PAYMENTS TO POWER SERVICES	9,536	9,362	9,363	9,364	9,364	100%
60	STATION SERVICES PAYMENTS	3,652	3,350	3,350	3,337	3,264	98%
61	Sub-Total	134,716	130,489	138,444	140,857	143,692	102%
	Non-BBL Acquisition and Ancillary Products and Services						
62	LEASED FACILITIES	4,419	4,224	4,200	3,800	3,968	104%
63	GENERAL TRANSFER AGREEMENTS (SETTLEMENT)	12,724	509	500	3,030	5,569	184%
64	NON-BBL ANCILLARY SERVICES	395	6,857	4,120	3,922	3,417	87%
65	TRANSMISSION RENEWABLES	555	-	561	587	162	28%
66	Sub-Total Sub-Total	18,093	11,590	9,381	11,339	13,116	116%
67	Trans. Srvcs. Acquisition and Ancillary Services Sub-Total	152,809	142,079	147,825	152,195	156,807	103%
	Transmission Reimbursables Reimbursables						
68	EXTERNAL REIMBURSABLE SERVICES	24,913	7,580	6,927	8,862	24,835	280%
69	INTERNAL REIMBURSABLE SERVICES	1,809	2,334	2,756	2,863	2,390	83%
70	Sub-Total	26,722	9,914	9,682	11,725	27,225	232%
71	Transmission Reimbursables Sub-Total	\$ 26,722	\$ 9,914	\$ 9,682	\$ 11,725	\$ 27,225	232%

Run Date/Time: October 22, 2013 06:34

Report ID: 0061FY13 **Transmission Services Detailed Statement of Revenues and Expenses** 

Run Date/Time: October 22, 2013 06:34 Requesting BL: TRANSMISSION BUSINESS UNIT Through the Month Ended September 30, 2013 Data Source: EPM Data Warehouse Unit of Measure: \$ Thousands Preliminary/ Unaudited % of Year Elapsed =

	A	В	С	<b>D</b> <note 1<="" th=""><th>Е</th><th>F</th></note>	Е	F
	FY 2012		FY 2013		FY 2013	FY 2013
	Actuals	Rate Case	SOY Budget	Current EOY Forecast	Actuals	Actuals per Forecast
BPA Internal Support						
72 Additional Post-Retirement Contribution	\$ 17,243	\$ 17,821	\$ 17,821	\$ 17,821	\$ 17,820	100%
73 Agency Services G & A (excludes direct project support)	57,065	60,961	58,357	59,802	59,868	100%
74 BPA Internal Support Subtotal	74,308	78,781	76,177	77,623	77,689	100%
Other Income, Expenses, and Adjustments						
75 Bad Debt Expense	(27)	-	-	19	44	231%
76 Other Income, Expenses, Adjustments	(253)	-	-	599	(1,673)	-379%
77 Undistributed Reduction	-	-	(2,297)	-	-	0%
78 Depreciation	188,681	216,397	195,220	200,960	204,848	102%
79 Amortization	1,130	1,727	1,760	1,720	1,697	99%
80 Total Operating Expenses	746,650	766,122	754,748	759,159	774,388	102%
Net Operating Revenues (Expenses)	218,491	203,899	208,572	204,763	205,486	100%
Interest Expense and (Income)						
82 Federal Appropriation	26,712	10,396	18,600	18,641	18,641	100%
83 Capitalization Adjustment	(18,968)	(18,968)	(18,968)	(18,968)	(18,968)	100%
84 Borrowings from US Treasury	76,499	137,582	79,730	82,831	81,801	99%
85 Debt Service Reassignment	57,233	52,556	51,498	53,671	53,671	100%
86 Customer Advances	10,709	25,188	10,500	8,375	7,962	95%
87 Lease Financing	27,898	22,133	48,996	30,566	31,323	102%
88 AFUDC	(37,010)	(32,255)		` ' /	(26,855)	86%
89 Interest Income	(13,293)	(21,467)	(17,260)	(14,067)	(13,493)	96%
90 Net Interest Expense (Income)	129,781	175,165	139,697	129,649	134,082	103%
91 Total Expenses	876,431	941,287	894,444	888,808	908,469	102%
92 Net Revenues (Expenses)	\$ 88,710	\$ 28,734	\$ 68,875	\$ 75,114	\$ 71,404	95%

<sup>&</sup>lt;1 Although the forecasts in this report are presented as point estimates, BPA operates a hydro-based system that encounters much uncertainty regarding water supply and wholesale market prices. These uncertainties, among other factors, may result in large range swings +/- impacting the final results in revenues, expenses, and cash reserves.

Report ID: 0067FY13

Requesting BL: CORPORATE BUSINESS UNIT Unit of Measure: \$Thousands

### BPA Statement of Capital Expenditures EVED Through the Month Ended September 30, 2013

FYTD Through the Month Ended September 30, 2013
Preliminary Unaudited

Run Date/Run Time:October 22, 2013/ 08:36

Data Source: EPM Data Warehouse
% of Year Elapsed = 100%

		Α	В	С	D	E	F
		FY 2	013	FY 2	2013	FY 2	2013
		SOY Budget	Current EOY Forecast	Actuals: Sep	Actuals: FYTD	Actuals / SOY Budget	Actuals / Forecast
	Transmission Business Unit						
	MAIN GRID						
1	MID-COLUMBIA REINFORCEMENT	\$ -	\$ 61	\$ -	\$ 260	0%	428%
2	CENTRAL OREGON REINFORCEMENT	6,699	6,247	(16)	6,226	93%	100%
3	BIG EDDY-KNIGHT 500kv PROJECT	48,316	35,761	2,213	38,012	79%	106%
4	OLYMPIC PENINSULA REINFORCEMNT	1,639	688	122	1,031	63%	150%
5	WEST OF MCNARY INTEGRATION PRO	68	2,853	(1)	2,366	3480%	83%
6	I-5 CORRIDOR UPGRADE PROJECT	15,171	10,889	1,578	11,195	74%	103%
7	CENTRAL FERRY- LOWER MONUMNTAL	46,366	1,475	143	1,537	3%	104%
8	SEATTLE-PUDGET SOUND AREA	8,049	1,125	174	619	8%	55%
9	PORTLAND-VANCOUVER	2,222	6,191	427	6,225	280%	101%
10	WEST OF CASCADES NORTH	1,523	403	54	866	57%	215%
11	NORTHERN INTERTIE	250	57	2	41	16%	71%
12	SALEM- ALBANY-EUGENE AREA	275	448	24	325	118%	72%
13	TRI-CITIES AREA	7,197	7,586	1,827	6,896	96%	91%
14	MONTANA-WEST OF HATWAI	7,699	464	36	232	3%	50%
15	NERC CRITERIA COMPLIANCE	6,612	-	-	-	0%	0%
16	MISC. MAIN GRID PROJECTS	8,303	9,843	4,455	11,177	135%	114%
17	TOTAL MAIN GRID	160,391	84,090	11,039	87,006	54%	103%
	AREA & CUSTOMER SERVICE						
18	ROGUE SVC ADDITION	1,393	209	53	726	52%	347%
19	CITY OF CENTRALIA PROJECT	-	42	1	8	0%	18%
20	SOUTHERN IDAHO - LOWER VALLEY	14,425	4,988	672	4,730	33%	95%
21	LONGVIEW AREA REINFORCEMENT	355	255	83	405	114%	159%
22	KALISPELL-FLATHEAD VALLEY	2,338	3,767	1,587	4,472	191%	119%
23	MISC. AREA & CUSTOMER SERVICE	4,592	3,381	799	3,450	75%	102%
24	TOTAL AREA & CUSTOMER SERVICE	\$ 23,103	\$ 12,641	\$ 3,195	\$ 13,791	60%	109%

Report ID: 0067FY13

Requesting BL: CORPORATE BUSINESS UNIT

## BPA Statement of Capital Expenditures FYTD Through the Month Ended September 30, 2013 Preliminary Unaudited

Run Date/Run Time: October 22, 2013/ 08:36
Data Source: EPM Data Warehouse
% of Year Elapsed = 100%

L	Unit of Measure: \$Thousands	Prelim	Preliminary Unaudited			9	% of Year Elapsed =	100%
			A	В	С	D	E	F
			FY 2	013	FY:	2013	FY 2	013
			SOY Budget	Current EOY Forecast	Actuals: Sep	Actuals: FYTD	Actuals / SOY Budget	Actuals / Forecast
	Transmission Business Unit (Continued)							
	SYSTEM REPLACEMENTS							
25	TEAP - TOOLS	\$	2,000	\$ 1,226	\$ 837	\$ 1,408	70%	115%
26	TEAP - EQUIPMENT		8,456	6,807	947	4,500	53%	66%
27	SPC - SER		5,508	8,246	(30)	4,398	80%	53%
28	SPC - DFRS		200	876	27	969	484%	111%
29	SPC - METERING		596	765	188	732	123%	96%
30	SPC - CONTROL AND INDICATION		1,724	1,958	95	2,513	146%	128%
31	SPC - RELAYS		24,838	11,154	1,407	9,477	38%	85%
32	PSC - TELEPHONE SYSTEMS		306	299	47	284	93%	95%
33	PSC - TRANSFER TRIP		12,346	7,490	1,491	6,754	55%	90%
34	PSC - FIN/OP NETWORKS		95	340	78	491	517%	144%
35	PSC - TLECOM TRANSPORT		1,179	850	235	1,214	103%	143%
36	PSC - SCADA/TELEMTRY/SUP CNTRL		1,269	1,235	61	1,409	111%	114%
37	PSC-TELECOM SUPPORT EQUIPMENT		1,469	4,855	485	3,028	206%	62%
38	SUB DC-PWR ELCTRNC & SRS CAPS		13,436	18,160	2,072	15,190	113%	84%
39	SUB AC-BUS & STRUCTURES		610	882	21	1,075	176%	122%
40	SUB AC - LOW VOLTAGE AUX.		5,055	7,356	976	5,513	109%	75%
41	SUB AC- SHUNT CAPACITORS		50	2,022	47	1,703	3407%	84%
42	SUB AC-CIRCUIT BRKR & SWTCH GR		20,272	19,600	5,558	19,529	96%	100%
43	SUB AC - CVT/PT/CT & ARRESTERS		1,244	3,611	137	3,394	273%	94%
44	SUB AC-TRANSFORMERS & REACTORS		9,813	10,616	6,172	7,310	74%	69%
45	LINES - STEEL HARDWARE REPLCMT		32,898	28,600	2,190	26,025	79%	91%
46	LINES - WOOD POLE LN REBUILDS		50,727	49,081	2,649	46,330	91%	94%
47	MISC. REPLACEMENT PROJECTS		-	689	4,301	9,617	0%	1396%
48	MISC FACILITIES- NON-ELECTRIC		33,447	28,090	7,449	17,431	52%	62%
49	TOTAL SYSTEM REPLACEMENTS	\$	227,542	\$ 214,807	\$ 37,441	\$ 190,294	84%	89%

Report ID: 0067FY13

Requesting BL: CORPORATE BUSINESS UNIT
Unit of Measure: \$Thousands

BPA Statement of Capital Expenditures
FYTD Through the Month Ended September 30, 2013
Preliminary Unaudited

Run Date/Run Time: October 22, 2013/ 08:36
Data Source: EPM Data Warehouse
% of Year Elapsed = 100%

	nit of Measure: \$1 nousands	Preliminary Unaudite		С	D	E	100% F
		A FY 2	B 013		2013	E FY 2	
		SOY Budget	Current EOY Forecast	Actuals: Sep	Actuals: FYTD	Actuals / SOY Budget	Actuals / Forecast
	Transmission Business Unit (Continued)						
	UPGRADES & ADDITIONS						
50	IT PROJECTS	\$ 2,851	\$ 8,577	\$ 992	\$ 7,381	259%	86%
51	SECURITY ENHANCEMENTS	11,001	6,131	1,237	4,350	40%	71%
52	LAND RIGHTS - ACCESS ROADS	5,819	5,737	801	6,939	119%	121%
53	LAND RIGHTS- VEG MITIGATION	582	676	2	374	64%	55%
54	LAND RIGHTS - TRIBAL RENEWALS	1,261	933	32	238	19%	26%
55	ACCESS ROADS	18,247	15,783	3,229	17,055	93%	108%
56	SUBSTATION UPGRADES	21,208	17,989	3,019	16,075	76%	89%
57	LINE SWITCH UPGRADES	300	-	-	-	0%	0%
58	LINE CAPACITY UPGRADES	1,000	1,365	144	1,385	138%	101%
59	CELILO UPGRADES PROJECT	106,775	59,111	1,914	47,967	45%	81%
60	CONTROL CENTERS	2,385	312	2	9	0%	3%
61	CC SYSTEM & APPLICATION	4,107	1,907	688	1,977	48%	104%
62	CC INFASTRUCTURE COMPONENTS	7,054	4,731	1,594	4,389	62%	93%
63	SYSTEM TELECOMMUNICATION	48,010	39,178	11,429	38,883	81%	99%
64	MISC. UPGRADES AND ADDITIONS	24,646	41,895	18,401	49,793	202%	119%
65	TOTAL UPGRADES & ADDITIONS	255,246	204,325	43,484	196,816	77%	96%
	ENVIRONMENT CAPITAL						
66	MISC. ENVIRONMENT PROJECTS	6,483	8,110	2,094	7,791	120%	96%
67	TOTAL ENVIRONMENT CAPITAL	6,483	8,110	2,094	7,791	120%	96%
68	CAPITAL DIRECT	672,764	523,973	97,252	495,699	74%	95%
	PFIA						
69	MISC. PFIA PROJECTS	12,520	10,616	480	10,151	81%	96%
70	GENERATOR INTERCONNECTION	38,862	(240)	(8,770)	(2,446)	-6%	1020%
71	SPECTRUM RELOCATION	1,296	914	109	1,044	81%	114%
72	TOTAL PFIA	52,678	11,291	(8,181)	8,749	17%	77%
73	CAPITAL INDIRECT	0	-	(12,605)	1,259	0%	0%
74	LAPSE FACTOR	(72,273)	-		-	0%	0%
75	TOTAL Transmission Business Unit	\$ 653,169	\$ 535,263	\$ 76,466	\$ 505,706	77%	94%

Report ID: 0067FY13 **BPA Statement of Capital Expenditures** Run Date/Run Time: October 22, 2013/ 08:36 FYTD Through the Month Ended September 30, 2013 Requesting BL: CORPORATE BUSINESS UNIT Data Source: EPM Data Warehouse Unit of Measure: \$Thousands **Preliminary Unaudited** % of Year Elapsed = 100% С F В D Ε FY 2013 FY 2013 FY 2013 SOY **Current EOY** Actuals: Actuals: Actuals / Actuals / **FYTD** Budget **Forecast** Sep **SOY Budget Forecast Power Business Unit** \$ 64,546 71,179 2,412 67,539 105% 95% **BUREAU OF RECLAMATION** 76 80% 96% 172,635 144,774 20,630 138,886 **CORPS OF ENGINEERS** 77 97% 82,170 81,000 78,376 95% **GENERATION CONSERVATION** 21,916 78 5,885 7,000 (133)5,881 100% 84% POWER INFORMATION TECHNOLOGY 79 67,145 60,002 17,591 52,120 78% 87% FISH & WILDLIFE 80 (12,417)0% 0% LAPSE FACTOR 81 363,955 342,802 **TOTAL Power Business Unit** 379,964 62,417 90% 94% 82 **Corporate Business Unit** 34,274 34,577 48.649 4.358 71% 101% CORPORATE BUSINESS UNIT 83 **TOTAL Corporate Business Unit** 48,649 34,274 4,358 34,577 71% 101% 84 \$ 143,241 \$ 1,081,782 \$ 933,493 883,086 82% 95% **TOTAL BPA Capital Expenditures** 

# <u>Proposed</u> Schedule for Slice True-Up Adjustment for Composite Cost Pool True-Up Table and Cost Verification Process

Dates	Agenda
November 5, 2013	Fourth Quarter Business Review Meeting with customers Provide Slice True-Up Adjustment for the Composite Cost Pool (this number posted in the financial system)
November 18, 2013	Mail notification to Slice Customers of the Slice True-Up Adjustment for the Composite Cost Pool
November 20, 2013	BPA to post Composite Cost Pool True-Up Table containing actual values and the Slice True-Up Adjustment
December 12, 2013	Deadline for customers to submit questions about actual line items in the Composite Cost Pool True-Up Table with the Slice True-Up Adjustment for inclusion in the Agreed Upon Procedures (AUPs) Performed by BPA external CPA firm (customers have 15 business days following the posting of Composite Cost Pool Table containing actual values and the Slice True-Up Adjustment
December 20, 2013	BPA posts a draft list of AUP tasks to be performed (Attachment A does not specify an exact date)
January 7, 2014	Customer comments are due on the list of tasks (The deadline can not exceed 10 days from BPA posting)
January 14, 2014	BPA finalizes list of questions about actual lines items in the Composite Cost Pool True-Up Table for AUPs
January 16, 2014	External auditor to begin the work on the AUP tasks requested by customers
March 17, 2014	External auditor to complete the AUPs (may have up to 120 calendar days)
March 24, 2014	Initial Cost Verification Workshop
April 17, 2014	Customer comment period deadline
April 24, 2014	Follow-up Cost Verification Workshop
May 15, 2014	BPA Draft Response on AUP Report and questions/items raised during workshops
End of May 2014	If customers do not deliver any notice of grievances, BPA will issue a Final Response on the AUP Report

## 4h10c Credits: FY 2013

Estimated 4h10c Credits (\$ millions)	FY13 Rate Case	Start Of Year	1st Quarter	2nd Quarter	3rd Quarter	August DOE Certification	Final Calculations
Power Purchases Caused by Operations for Fish & Wildlife	\$ 137.0 BP-12 Rate Case 70-yr average	\$ 53.1 STD03 forecasts Oct-Sep	\$ 50.3  Actual Generation Oct- Dec, Study08 forecasts Jan-Sep	\$ 76.7  Actual Credits Oct- Dec, Actual Generation Jan- Apr, Study14 forecasts May-Sep	\$ 83.5  Actual Credits Oct- Mar, Actual Generation Apr- Jun, Study18 forecasts Jul-Sep	\$ 74.8  Actual Credits Oct-Jul, Study22 forecasts Aug-Sep	\$ 85.8 Actual Credits Oct-Sep
Expense	\$ 241.0	\$ 242.9	\$ 242.9	\$ 242.9	\$ 242.9	\$ 243.0	\$ 239.0
F&W Program Software	\$ 1.8	\$ 1.8	\$ 1.8	\$ 1.8	\$ 1.8	\$ 0.2	\$ 0.0
Capital	\$ 50.0	\$ 67.1	\$ 67.1	\$ 67.1	\$ 67.1	\$ 60.0	\$ 52.1
Total	\$ 429.8	\$ 365.0	\$ 362.2	\$ 388.6	\$ 395.4	\$ 377.9	\$ 377.1
Credit (22.3%)	\$ 95.8	\$ 81.4	\$ 80.8	\$ 86.6	\$ 88.2	\$ 84.3	\$ 84.1

#### **Comments on the Power Purchase Forecasts:**

- For the Rate Case we estimated a 4(h)(10)(C) credit for each of the 70 historic water years in the Rate Case study and used the average of these estimates. The estimates can vary significantly each year; for instance, the 70 years of 4(h)(10)(C) estimates ranged from \$70M to \$240M.
- For Start-of-year we estimated power purchases based on ESP forecasts from Study 03, the forecasted actual generation was similar to the average rate case generation, but prices were significantly lower, which caused the forecast to fall below the expected range from the Rate Case.
- For 1st Quarter we forecasted power purchases for Oct-Dec based on actual generation and prices, and we forecasted Jan-Sep based on ESP forecasts from Study 08. The estimate was similar to the start-of-year.
- For 2<sup>nd</sup> Quarter we have actual credits calculated for Oct-Dec; we forecasted power purchases for Jan-Apr based on actual generation and prices; and we forecasted May-Sep credits based on ESP forecasts from Study 14. Streamflows and generation decreased, so the power purchase forecast increased.
- For 3<sup>rd</sup> Quarter we have actual credits calculated for Oct-Mar; we forecasted power purchases for Apr-Jun based on actual generation and prices; and we forecasted Jul-Sep credits based on ESP forecasts from Study 18. Power purchase forecast increased because Mar actual calculation was higher than forecast, and Sep forecast increased due to update in Canadian operation and increased price forecast.
- For DOE's certification in August we have actual credits calculated for Oct-Jul, and we forecasted power purchases for Aug-Sep based on ESP
  estimates from Study 22. Actual credits in July were lower than forecasted, and the forecasted credits for Sep were lower than previously
  forecasted.
- The final credits are slightly higher than the previous forecast due to a change in September when the purchase amount and price increased.

	COMPOSITE COST PO	OL	TRUE-U	P	TABL	Æ			
						(	Q4 - FY 2013		
				FY	2013 Rate		Rate Case		
			Q4 Forecast	Cas	se Forecast		Difference		Q3
			(\$000)		(\$000)		(\$000)		(\$000)
1	Operating Expenses								
2	Power System Generation Resources								
3	Operating Generation								
4	COLUMBIA GENERATING STATION (WNP-2)	\$	330,066	\$	345,945	\$	(15,879)	\$	330,14
5	BUREAU OF RECLAMATION	\$	127,116	\$	119,891	\$	7,225	\$	128,69
6	CORPS OF ENGINEERS	\$	208,096	\$	215,700	\$	(7,604)	\$	215,70
8	LONG-TERM CONTRACT GENERATING PROJECTS	\$	22,518	\$	25,832	\$	(3,313)	\$	23,49
9	Sub-Total	\$	687,796	\$	707,368	\$	(19,572)		698,02
10	Operating Generation Settlement Payment and Other Payments						· · · · · · · · · · · · · · · · · · ·		,
11	COLVILLE GENERATION SETTLEMENT	\$	22,122	\$	22,148	\$	(26)	\$	22,12
12	SPOKANE LEGISLATION SETTLEMENT	\$	-	\$		\$	-	\$	
13	Sub-Total	\$	22,122	10.0	22,148		(26)		22,12
14	Non-Operating Generation		,	10.00	,		(20)		
15	TROJAN DECOMMISSIONING	\$	(26,485)	\$	1,500	\$	(27,985)	\$	(23,00
16	WNP-1&3 DECOMMISSIONING	\$	607	400,000	448		159		60
17	Sub-Total	\$	(25,878)	-	1,948		(27,826)		(22,40
18	Gross Contracted Power Purchases	Ψ	(20,070)	•	1,040	Ψ	(27,020)	Ψ	(22,40
19	PNCA HEADWATER BENEFITS	\$	3,404	\$	2,704	4	700	•	2,90
20	HEDGING/MITIGATION (omit except for those assoc. with augmentation)		5,404	\$	2,704	\$	700	Φ	2,90
20	GROSS OTHER POWER PURCHASES (omit, except for those assoc.	φ		φ	-	Ψ			
	with Designated BPA System Obligations or Designated BPA Contract								
24	Purchases	\$	12,399	•		\$	12,399	œ	7.77
21		\$			2,704				10,67
22	Sub-Total	Þ	15,802	Þ	2,704	Ф	13,098	Þ	10,67
23	Bookout Adjustment to Power Purchases (omit)								
24	Augmentation Power Purchases (omit - calculated below)								
25	AUGMENTATION POWER PURCHASES	\$		\$		\$	12	•	
26	Sub-Total Sub-Total	Ф	-	Ф	-	Ф	-	\$	
27	Exchanges and Settlements	•	204.022	•	204 700	•	470	•	202.00
28	RESIDENTIAL EXCHANGE PROGRAM (REP)	\$	201,933	\$	201,760		173		202,68
29	REP ADMINISTRATION COSTS (actuals are included under strategy and		-	\$		\$	(885)		
30	OTHER SETTLEMENTS	\$	-	\$		\$			
31	Sub-Total Sub-Total	\$	201,933	\$	202,645	\$	(712)	\$	202,68
32	Renewable Generation				F 000		/F 0000		
33	RENEWABLES R&D (moved to Power R&D after rate case)	\$		\$	5,939		(5,939)	150	
34	Contra expense for unspent GEP revenues remaining at end of FY 2011	\$	(2,570)		(2,625)		55	1000	(2,62
35	RENEWABLES (excludes KIII)	\$	21,269		28,145	_	(6,875)		26,39
36	Sub-Total	\$	18,700	\$	31,459	\$	(12,759)	\$	23,77
37	Generation Conservation								
38	GENERATION CONSERVATION R&D (moved to Power R&D after rate ca	ase)		\$	<u></u>	\$	(=		
39	DSM TECHNOLOGY	\$	1	\$	-	\$	1	\$	(
40	CONSERVATION ACQUISITION	\$	10,394	\$	15,950	\$	(5,556)	\$	13,43
41	LOW INCOME WEATHERIZATION & TRIBAL	\$	5,025	\$	5,000	\$	25	\$	5,08
42	ENERGY EFFICIENCY DEVELOPMENT	\$	5,368	\$	11,500	\$	(6,132)	\$	7,20
43	LEGACY	\$	773	\$	900	\$	(127)		80
44	MARKET TRANSFORMATION	\$	14,517	\$	14,500	(10)31	17		14,88
45	Sub-Total	\$		\$	47,850		(11,772)	1000	41,39
46	Conservation Rate credit (CRC)	\$	-	\$	ALL TO A PROPERTY OF A PARTY OF A	\$	- (,,	\$	
47	Power System Generation Sub-Total	\$	956,553		1,016,121		(59,567)		976,27

	I					0	4 - FY 2013			
							Rate Case			
		04.5			Forecast				00	
			Q4 Forecast (\$000)			L	Difference	Q3		
40		(1	5000)	(-	\$000)		(\$000)		(\$000)	
48	D									
49	Power Non-Generation Operations									
50	Power Services System Operations	\$		\$		\$				
51	EFFICIENCIES PROGRAM (moved to Power R&D after rate case)	\$	-	\$	-	\$				
52	PS SYSTEM OPERATIONS R&D (moved to Power R&D after rate case)	\$	5.881		7.316	-	(1,436)	•	7.1	
53	INFORMATION TECHNOLOGY	\$	7,423		5,919	100	1,505		6,6	
54	GENERATION PROJECT COORDINATION	\$							6,6	
55	SLICE IMPLEMENTATION		854		2,394		(1,540)			
56	Sub-Total	\$	14,158	Þ	15,629	Þ	(1,470)	Þ	14,8	
57	Power Services Scheduling	•	0.400	•	10.010	•	(4 EQ4)			
58	OPERATIONS SCHEDULING	\$	8,426		10,010	155.00	(1,584)	\$	10,	
59	PS SCHEDULING R&D (moved to Power R&D after rate case)	•	0.111	\$		\$	(005)	-		
60	OPERATIONS PLANNING	\$	6,444	- 50		\$	(265)	77.0	6,	
61	Sub-Total	\$	14,871	<b>\$</b>	16,719	<b>\$</b>	(1,849)	<b>\$</b>	17,2	
62	Power Services Marketing and Business Support	•	0.400				0.400	•		
63	POWER R&D (forecast includes all the R&D items)	\$	6,186		00.400	\$	6,186	100	5,9	
64	SALES & SUPPORT	\$	18,822		20,130		(1,308)		17,9	
65	STRATEGY, FINANCE & RISK MGMT (actuals will include a part of REP a		13,559		17,412		(3,854)		15,9	
66	EXECUTIVE AND ADMINISTRATIVE SERVICES (actuals will include a pa		3,804		3,550		254	2000	3,9	
67	CONSERVATION SUPPORT	\$	7,902		9,686		(1,784)		8,2	
68	Sub-Total Sub-Total	\$	50,273		50,778		(505)		52,0	
69	Power Non-Generation Operations Sub-Total	\$	79,302	\$	83,126	\$	(3,824)	\$	84,1	
70	Power Services Transmission Acquisition and Ancillary Services									
71	PS Transmission Acquisition and Ancillary Services									
72	POWER SERVICES TRANSMISSION & ANCILLARY SERVICES	_		_			(5)			
73	Transmission costs for Designated BPA System Obligations (not subj		31,707		31,707		(0)		31,7	
74	3RD PARTY GTA WHEELING	\$	51,244	\$	52,891	\$	(1,647)	\$	52,8	
75	POWER SERVICES - 3RD PARTY TRANS & ANCILLARY SVCS (omit)	\$								
76	GENERATION INTEGRATION (WIT expense included)	\$	9,941		8,709		1,232		12,9	
77	WIND INTEGRATION TEAM	\$	-	\$	4,259	1000	(4,259)			
78	TELEMETERING/EQUIP REPLACEMT	\$		\$	51		(50)			
79	Power Services Trans Acquisition and Ancillary Serv Sub-Total	\$	92,894	\$	97,617	\$	(4,723)	\$	97,6	
80	Fish and Wildlife/USF&W/Planning Council/Environmental Req									
81	BPA Fish and Wildlife (includes F&W Shared Services)									
82	Fish & Wildlife	\$	238,984		241,384	1000	(2,400)		242,9	
83	USF&W Lower Snake Hatcheries	\$	28,700		29,900		(1,200)		28,8	
84	Planning Council	\$	10,118		10,355		(237)		10,3	
85	Environmental Requirements	\$		\$		\$	(305)			
86	Fish and Wildlife/USF&W/Planning Council Sub-Total	\$	277,802	\$	281,944	\$	(4,143)	\$	282,1	
87	BPA Internal Support				100 000					
88	Additional Post-Retirement Contribution	\$	17,820		17,821		(0)		17,8	
89	Agency Services G&A (excludes direct project support)	\$	52,108		52,662		(554)		53,9	
90	BPA Internal Support Sub-Total	\$	69,928	AND SECTION AND SE	70,483		(555)	37.54%	71,7	
91	Bad Debt Expense	\$	12	(A. 18 )		\$	12			
92	Other Income, Expenses, Adjustments	\$	(139)	\$		\$	(139)	\$		

	COMPOSITE COST PO	COMPOSITE COST POOL TRUE-UP TABLE									
						Q	4 - FY 2013				
				F	Y 2013 Rate	F	Rate Case				
		Q4	1 Forecast	Ca	se Forecast		Difference		Q3		
		-	(\$000)		(\$000)		(\$000)		(\$000)		
93	Non-Federal Debt Service		(, /		(, /		,,,		(,,,,		
94	Energy Northwest Debt Service										
95	COLUMBIA GENERATING STATION DEBT SVC	\$	96,935	\$	100,172	\$	(3,237)	\$	96,88		
96	WNP-1 DEBT SVC	\$	234,847	\$		\$	(14,441)		234,80		
97	WNP-3 DEBT SVC	\$	170,737		175,817		(5,080)		170,69		
98	EN RETIRED DEBT	\$	-	\$		\$	-	\$			
99	EN LIBOR INTEREST RATE SWAP	\$	-	\$	_	\$	-	\$			
100	Sub-Total	\$	502,518		525,277	0.5	(22,758)		502,37		
101	Non-Energy Northwest Debt Service	, T	00_,0.0	. •	020,2		(==,: 00)	•	002,0		
102	TROJAN DEBT SVC			\$	_	\$	_	\$			
103	CONSERVATION DEBT SVC	\$	2.617	255	2.377	100	241	\$	2.6		
104	COWLITZ FALLS DEBT SVC	\$	11,474	200	11.709	177.00	(235)		11.59		
105	NORTHERN WASCO DEBT SVC	\$	1,926		2,224	100	(297)		1,92		
106	Sub-Total	\$	16,018		16,309	27.00	(292)		16.13		
107	Non-Federal Debt Service Sub-Total	\$	518,536		541,586		(23,050)		518,50		
108	Depreciation	\$	130,353		127,560	305	2,793		126.50		
109	Amortization	\$	92,819		86,767		6,052		92.4		
110	Total Operating Expenses	\$	2,218,060		2,305,204	0.000	(87,144)	100//	2,250,18		
111	Total Operating Expenses	Ψ	2,210,000	Ψ	2,303,204	Ψ	(07,144)	Ψ	2,250,10		
112	Other Expenses										
113	•	\$	205,601	œ.	221.546	•	(15,945)	•	205.29		
114	Net Interest Expense Interest credit adjustment (removes nonSlice cost pool interest credit included	1.00	205,001	\$	(1,216)		1,216	100	205,28		
115	LDD	\$		\$	32,944		(2,796)		32.24		
		\$	19,305								
116	Irrigation Rate Discount Costs Sub-Total	\$	255,054	-	19,305		(0) (17,525)		19,30 <b>256,8</b> 3		
117		\$		10/2/	272,579 2,577,783				A STATE OF THE STA		
500 E 10 T 10 A	Total Expenses	Þ	2,473,115	Þ	2,5//,/83	Ф	(104,668)	Þ	2,507,0		
119	Develope One dite										
120	Revenue Credits	\$	143,689	•	404.070	•	12,611	•	140.0		
121	Generation Inputs for Ancillary, Control Area, and Other Services Revenues	\$			131,078		3,171		140,8		
122	Downstream Benefits and Pumping Power revenues	\$	17,609 84,092		14,438			100	16,7		
123	4(h)(10)(c) credit	\$			95,847		(11,754)		88,1		
124	Colville and Spokane Settlements	\$	4,600		4,600		- (5.000)	\$	4,60		
125	Energy Efficiency Revenues	\$	5,692	0.000	11,500		(5,808)	100	7,2		
126	Miscellaneous revenues	- T	4,255	\$	3,420		835	\$	4,3		
127	Renewable Energy Certificates	\$ \$	1,151	(7)	2,836	\$	(1,685)		1,10		
128	Pre-Subscription Revenues	-	1,877		1,778	\$	99	\$	1,5		
129	Net Revenues from other Designated BPA System Obligations (Upper Baker)	\$	347		397	\$	(50)	1000	3		
130	WNP-3 Settlement revenues	\$	33,092		29,163	\$	3,929	\$	33,0		
131	RSS Revenues (not subject to true-up)	\$	2,611		2,611		0	\$	2,6		
132	Firm Surplus and Secondary Adjustment (from Unused RHWM)	\$	9,057		5,827		3,229	\$	6,3		
133	Balancing Augmentation Adjustment (not subject to true-up)	\$	(6,268)	1000	(6,268)		(0)	\$	(6,2		
134	Transmission Loss Adjustment (not subject to true-up)	\$		\$	25,266	\$	0	\$	25,2		
135	Tier 2 Rate Adjustment (not subject to true-up)	\$		\$	645	\$	(0)	\$	6		
136	NR Revenues	\$		\$	1	\$		\$			
137	Total Revenue Credits	\$	327,716	•	323,139	•	4,578	\$	326,7		

	COMPOSITE COST POOL TRUE-UP TABLE										
		(	Q4 Forecast (\$000)	FY 2013 Rate Case Forecast (\$000)		Q4 - FY 2013 Rate Case Difference (\$000)			Q3 (\$000)		
138											
139	Augmentation Costs (not subject to True-Up)	_									
140	Tier 1 Augmentation Resources (includes Augmentation RSS and Augmentation RSC		12,737			\$	-	\$	12,737		
141	Augmentation Purchases	\$	66,155		66,155		(0)		66,155		
142	Total Augmentation Costs	\$	78,892	\$	78,892	\$	(0)	\$	78,892		
143											
144	DSI Revenue Credit								2222		
145	Revenues 340 aMW, 340 aMW @ IP rate	\$	107,998		108,309		(311)		101,673		
146	Total DSI revenues	\$	107,998	\$	108,309	\$	(311)	\$	101,673		
147											
148	Minimum Required Net Revenue Calculation										
149	Principal Payment of Fed Debt for Power	\$	122,800		122,800		-	\$	122,800		
150	Irrigation assistance	\$	58,958	5 To 10	58,822		136	\$	58,822		
151	Depreciation	\$	130,353		127,560	\$	2,793		126,500		
152	Amortization	\$	92,819	-	86,767	\$	6,052	100	92,478		
152a	Non-Federal Interest Expense (prepay program)	\$	(12,750)		-	\$	(12,750)	\$	7,653		
152b	Prepayment Credits	\$	7,653	\$	-	\$	7,653	\$	(12,750)		
153	Capitalization Adjustment	\$	(45,937)	\$	(45,937)	\$	0	\$	(45,937)		
154	Bond Premium Amortization	\$	185	\$	185	\$	0	\$	185		
155	Principal Payment of Fed Debt exceeds non cash expenses	\$	9,435	\$	13,047	\$	(3,612)	\$	13,493		
156	Minimum Required Net Revenues	\$	9,435	\$	13,047	\$	(3,612)	\$	13,493		
157											
158	Annual Composite Cost Pool (Amounts for each FY)	\$	2,125,728	\$	2,238,275	\$	(112,547)	\$	2,170,994		
159											
160	SLICE TRUE-UP ADJUSTMENT CALCULATION FOR COMPOSITE COST POOL										
161	TRUE UP AMOUNT (Difference between Q1 forecast and 2012 Rate Case)	\$	(112,547)					\$	(67,281)		
162	Sum of TOCAs		0.9655308						0.9740799		
163	expressed as a decimal, 100 percent = 1.0)	\$	(116,565)					\$	(69,072)		
164	TRUE-UP ADJUSTMENT CHARGE BILLED (26.85407 percent)	\$	(31,302)					\$	(18,549)		

### **Financial Disclosure**

- The information contained in slides 4-15, 20-29, and 145-162 has been made publicly available by BPA on October 31, 2013 and contains BPA-approved Financial Information.
- The information contained in slides 16-19 and 130-144 has been made publicly available by BPA on October 31, 2013 and does not contain BPA-approved Financial Information.